# Київський столичний університет імені Бориса Грінченка

# ГОЛЬЦЕВА Марія Ігорівна МЕЛЬНИК Оксана Володимирівна

# АНГЛІЙСЬКА МОВА ДЛЯ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ

Навчальний посібник 1 курс

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АНГЛІЙСЬКА МОВА ДЛЯ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ / Навчальний посібник з англійської мови для студентів 1 курсу спеціальності "Кібербезпека та та захист інформації" / Гольцева М. І., Мельник О. В. — Київ: ФО-П Білецький Р.Г., 2025.-280 с.

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Навчальний посібник призначений студентам 1 курсу спеціальності "Кібербезпека та захист інформації" для реалізації практичних занять та самостійної роботи. Посібник містить інформативні навчальні тексти, практичні завдання, матеріали для самостійної роботи, блоки професійних ідіом та словник термінів, призначені для розвитку й вдосконалення навичок та вмінь усного та писемного спілкування англійською мовою на основні теми інформаційних технологій та кібербезпеки. Усі тексти посібника відібрано з сучасних автентичних джерел. Посібник рекомендовано для користувачів з рівнем володіння англійською мовою не нижче В1 (Intermediate), що дозволяє ефективно працювати з автентичними матеріалами та спеціалізованою лексикою у галузі цифрових технологій.

Для студентів 1 курсу навчання немовних відділень вищих навчальних закладів, перекладачів, викладачів та науковців, яких цікавлять сучасні інформаційні технології, а також просто для охочих зануритись у захоплюючий англомовний світ цифрової грамотності.

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### ПЕРЕДМОВА

Навчальний посібник "Англійська мова для інформаційних технологій" розроблений для студентів 1 курсу спеціальності "Кібербезпека та захист інформації " і розрахований на 148 годин практичних занять. Посібник може використовуватись також і для заочної форми навчання. Посібник рекомендовано для користувачів з рівнем володіння англійською мовою не нижче В1 (Intermediate), що дозволяє ефективно працювати з автентичними матеріалами та спеціалізованою лексикою у галузі цифрових технологій.

Основною метою посібника  $\epsilon$  поглиблення мовної компетенції студентів, поповнення їхнього словникового запасу з інформаційної термінології, тренування й розвиток вмінь та навичок спілкування англійською мовою на професійні теми з інформаційних технологій та кібербезпеки, а також вдосконалення навичок та вмінь усного та письмового перекладу фахової літератури з цифрової тематики.

Навчальний посібник складається з 30 уроків, розрахованих на 2 семестри навчання, блоку завдань для самостійної роботи, списку професійно-спрямованих ідіом з українським перекладом, глосарію термінів та акронімів, списку використаних джерел.

Всі завдання спрямовані на закріплення знань професійної лексики й розвиток навичок та вмінь професійного спілкування, а також навичок та вмінь усного і письмового перекладу.

Тематика текстів охоплює різні галузі цифрової грамотності та висвітлює актуальні питання з інформаційних технологій кібербезпеки, що допомагають студентам значно збагатити свій лексичний запас, закріпити свої мовні знання та удосконалити свої професійно-орієнтовані англомовні мовленнєві навички.

Базові тексти, відібрані з автентичних джерел, розташовані у певній послідовності відповідно до їхнього рівня складності та лексичного наповнення з метою, щоб студенти мали змогу систематично повторювати й засвоювати терміни інформаційних технологій, розвивати й вдосконалювати навички усного й писемного мовлення та перекладу професійної літератури.

### PART I

# UNIT 1. A Foreign language in the field of information technologies

### TASKS:

1. Read the text and briefly discuss (write down) its main ideas.



For several reasons, English has become a vital language in Information and Communication Technology (ICT) and cybersecurity. Its role is so critical that it's often considered the global lingua franca of these domains. Here's why English is essential for ICT and cybersecurity professionals:

### 1. Global Communication

- Collaboration with international teams: Many ICT and cybersecurity projects involve teams from different countries. English serves as the common language for professionals across the globe, enabling collaboration between diverse cultures and regions.
- Conferences and workshops: Major ICT and cybersecurity conferences, training sessions, and certifications are conducted in English, ensuring professionals stay updated with the latest technologies and trends.

### 2. Access to Information and Resources

- Technical documentation: A vast majority of programming languages, software development kits (SDKs), and technical manuals are written in English. Mastering the language makes it easier for professionals to understand and apply the latest advancements.
- Research papers and publications: Most academic research in ICT and cybersecurity is published in English. To stay current with new developments, professionals need to be proficient in reading and understanding these resources.

### 3. Industry Standards and Certifications

- Certifications: Industry-standard certifications like CISSP (Certified Information Systems Security Professional), CEH (Certified Ethical Hacker), and CompTIA Security+ are mostly available in English. Gaining these qualifications requires fluency in the language, as both the study material and exams are often in English.

- Standards and protocols: Cybersecurity standards such as ISO/IEC 27001, NIST, and frameworks like GDPR compliance documentation are published primarily in English, and understanding them is crucial for compliance.
- 4. Cybersecurity Threat Intelligence
- Global Threat Reports: Many threats intelligence reports, malware analysis, and security advisories are published in English. Proficiency in the language ensures professionals can quickly access and respond to new threats.
- Cybercrime and Hacking Communities: English is the dominant language used in global hacking forums and communities. Cybersecurity professionals need to monitor these channels to gather intelligence and stay informed about emerging threats.
- 5. Programming and Software Development
- Programming languages: Almost all major programming languages, like Python, Java, and C++, use English keywords and syntax. A strong grasp of English simplifies coding and understanding technical concepts.
- -Online resources and troubleshooting the vast majority of software development resources, tutorials, forums (like Stack Overflow), and online communities communicate in English. This helps in problem-solving and debugging code efficiently.
- 6. Cybersecurity Tools and Software
- User interfaces of security tools: Tools like Wireshark, Metasploit, and Kali Linux are primarily developed with English-language interfaces. Proficiency in English helps users understand commands, logs, and configurations effectively.
- Reporting and communication: Cybersecurity incidents often require professionals to write detailed reports and communicate with stakeholders, which usually happens in English, particularly in multinational organizations.
- 7. Job Market and Career Growth
- International job opportunities: Many ICT and cybersecurity positions, especially at the global level, require strong English language skills to communicate with clients and colleagues and to read technical documents. Mastery of English can open doors to job markets around the world.
- Professional networking Platforms like LinkedIn, GitHub, and industry-specific forums often function predominantly in English, making it essential for building a professional network.
- For ICT and cybersecurity professionals, English isn't just an advantage it's a necessity. Proficiency in the language enhances their ability to learn, communicate, and collaborate effectively, making them more competitive in the global job market. From accessing technical resources to staying ahead of cybersecurity threats, English enables professionals to engage fully with the ever-evolving tech landscape.

### 2. Answer these questions.

1) What types of educational institutions are discussed in the article regarding the use of information and communication technologies in language training?

2) What aspect of language education does the article focus on concerning information and communication technologies?
3) How do information and communication technologies contribute to the formation of language skills?
4) What are the key stages in the introduction of information and computer technologies in language teaching as characterized in the article?
5) What are the primary benefits of using computer-assisted language learning tools as described in the article?
3. State whether the following sentences are True or False (underline the correct option after the sentences). Be ready to provide your arguments.
<ol> <li>The article deals with modern means of information and communication technologies in the process of language training of students.</li> <li>The main lingua didactic tasks solved by the introduction of information and communication technologies in language education are not defined in the article.</li> <li>The article reveals the potential of information and computer technologies in teaching only grammar.</li> </ol>
<ul> <li>4) The stages of work on the introduction of information and computer technologies in the process of language teaching are characterized in the article.</li> <li>5) The keywords mentioned in the article are information and communication technologies, computer-assisted language learning, and language training.</li> <li>6) The article does not discuss the use of information technologies in higher</li> </ul>
educational institutions.
educational institutions.  4. Translate the following English units into Ukrainian.

1)	Which <b>Anglophone</b> regions in the tech industry do you know?
2)	What is his mother tongue?
3)	To know a foreign language is very important nowadays.
4)	He is fluent in French, a valuable skill in tech collaborations.
5)	Can you interpret this <b>code snippet</b> ?
<b>6.</b> ′	Translate from Ukrainian to English.
	Information and communication technologies
	Computer-assisted language learning
	Language training
7.	Explain this word in English without using the given word itself.
	Code snippet
	Second language
	Collaboration
8.	Fill in the blanks with the necessary words in the box.
	a foreign language opportunities
	International teams multiple languages

3) Understanding allows developers to read documentation and code snippets from various global sources.
9. Fill in the correct form of the present tense (Present Tense Simple and Progressive).
<b>1.</b> The programmer usually (start) work at 9 a.m., but today he (come) in early.
2. Our company (develop) a new AI tool that (help) with customer
support.
3. I (install) the latest version of the software right now.
4. She often (forget) to update the project status in the tracking system.
5. The system (not respond) because the server (run) a backup.
6. We (use) cloud computing more often these days to store sensitive data.
7. The IT support team (answer) user queries at the moment.
8. He (usually work) with Python, but this week he (learn)
JavaScript.
9. Our developers (fix) the bugs that users (report) in the latest update.
<b>10.</b> Why you (reset) the router again?
11. This software (not support) the new operating system.
12. I (check) the log files because the application (crash) repeatedly.
13. She (always test) her code before deployment.
14. The team (not release) the new version until all modules (pass)
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<b>10.</b> I (not understand) why the algorithm (fail) to sort the array properly.
11. You (always install) third-party plugins without testing. That
12. At the moment, our team (migrate) all user data to a secure cloud
environment.
13. He frequently (attend) webinars on cybersecurity, but he
(miss) today's session due to client meetings.
14. The app (run) smoothly most of the time, but right now it
(consume) too much memory.  15. They (test) the new feature now, but generally they (deploy)
only after full QA approval.
11. Fill in the missing prepositions:
1. The software is vulnerable SQL injection.
2. Always log using a secure password.
3. Developers must comply industry standards.
4. He specializes penetration testing.
5. They succeeded restoring the system.
6. We need to protect sensitive data unauthorized access.
7. She is responsible managing the cloud infrastructure.
8. He's not familiar the latest GDPR regulations.
9. The update is compatible all major operating systems.
10.The technician apologized the delay in restoring service.
11.Many users complain frequent app crashes.
12.Cybersecurity experts warn rising ransomware attacks.
13. This solution consists several integrated modules.
14.I'm currently working a project involving machine learning.
15. The company invested heavily data encryption technologies.
12. Match the terms to their definitions (1–10).
Terms:
A. Two-factor authentication B. Zero-day exploit C. Brute-force attack

- D. Social engineering
- E. Botnet
- F. Phishing
- G. Firewall
- H. Encryption
- I. Ransomware
- J. VPN

### **Definitions:**

- 1. A security method that requires two types of identity verification.
- 2. A cyberattack that targets a vulnerability not yet known to the software vendor.
- 3. A method of repeatedly trying different passwords until the correct one is found.
- A technique where attackers manipulate human behavior to gain unauthorized access.
- A network of infected computers is controlled remotely to carry out coordinated attacks.
- 6. A fake communication designed to trick someone into revealing sensitive data.
- 7. A network security system that monitors and controls incoming and outgoing traffic
- 8. A technique used to convert data into a secure, unreadable format.
- 9. Malicious software that locks data and demands payment to unlock it.
- 10.A secure connection that hides a user's IP address and encrypts internet traffic.

open-source, documentation, certifications, collaborate, multilingual,

### 13. Fill in the blanks using appropriate vocabulary from the box.

vulnerabilities, compliance, encryption, firewall, infrastructure, credentials, malware, interface, backup, deployment			
1.	Many developers prefer using tools to contribute and share their work.		
2.	Proficiency in English allows IT specialists to access up-to-date		
3.	To work efficiently across borders, teams must be able to smoothly.		
4.	Global like CISSP are predominantly conducted in English.		
5.	A platform makes the interface accessible to users from different regions.		
6.	Outdated software may contain serious security		
7.	The company was fined due to non with data protection regulations.		
8.	Sensitive information must always be protected using strong		
9.	The IT team configured the to block suspicious traffic.		
10	.Cloud requires constant monitoring and optimization.		

11. Never share your login with unauthorized users.
12. They isolated the system to prevent the spread of the
13.A user-friendly can significantly improve user experience.
14.It's critical to create a secure before system upgrades.
15.The DevOps team scheduled the software for midnight.
14. Complete the second sentence so that it has a similar meaning to the first, using the word in brackets.
1. It's necessary to update your password regularly. (should)
2. They are in the middle of running a vulnerability scan. ( <b>currently</b> )
3. You mustn't share login credentials. (allowed)
4. This tool isn't compatible with macOS. (work)
5. It's rare for him to make coding errors. (hardly)
6. She is responsible for server maintenance. (in charge)
7. We started using the new software last month. (been)
8. They will finish the update before 6 PM. (completed)
9. The issue was more serious than we thought. (as)
10. The system failed because of a configuration error. (due)
11. I'm sure he didn't mean to delete that file. (have)
12. There's a strong possibility the data was leaked. (may)
13. We need to encrypt this file before sending it. (has)
14. She codes better than anyone else in the team. (the best)
15. I haven't finished the report yet. (still)

### 16. Rewrite the following text using formal academic style (50–60 words):

"Lots of IT people don't think that learning English is a big deal. But it's super important. If you don't know English, it's really hard to work in international teams, get a good job, or understand technical stuff."

# 17. Write a blog post about the role of English in the IT field and share 3 tips to improve technical English. (150-200 words).

### UNIT 2. Computers. Use of computers

### TASKS:

## 1. Read the text and briefly write its meaning.

Computers have become an integral part of modern life, revolutionizing the way we work, communicate, and entertain ourselves. Their versatility and power have made them indispensable tools across various fields, from education and business to science and the arts.

Computers play a pivotal role in education, providing students with access to a vast array of resources and learning tools. Educational software, online courses, and interactive simulations enhance the learning experience, making it more engaging and effective. Teachers use computers to

and assess student progress.



In the business world, computers streamline operations, improve productivity, and facilitate communication. From managing accounts and inventory to designing marketing campaigns and conducting virtual meetings, computers enable businesses to operate more efficiently and reach a global audience. Data analysis and management systems help companies make informed decisions and stay competitive.

3) Computers are essential in scientific research, allowing scientists to process large datasets, run complex simulations, and model phenomena that would be impossible to

study otherwise. They enable breakthroughs in fields such as genetics, astronomy, and climate science by providing the computational power needed to analyze vast amounts of information.
4) In our daily lives, computers serve a multitude of purposes. They are used for browsing the internet, communicating with friends and family, shopping online, and managing personal finances. Entertainment options such as gaming, streaming movies and music, and social media are also largely dependent on computers.
The healthcare industry relies heavily on computers for managing patient records, utilizing diagnostic tools, and conducting research. Electronic health records (EHRs) enhance the accuracy and accessibility of patient information, while diagnostic software facilitates the detection of diseases and the planning of treatments. Computers also support telemedicine, allowing doctors to consult with patients remotely.
In summary, computers have transformed nearly every aspect of modern life. Their ability to process information quickly and accurately has made them essential tools in education, business, science, healthcare, and everyday activities. As technology continues to advance, the role of computers in our lives is likely to grow even more significant.
2. Match the headings (A-E) to paragraphs (1-5).
<ul> <li>A) In Education</li> <li>B) In Business</li> <li>C) In Daily Life</li> <li>D) In Healthcare</li> <li>E) In Science and Research</li> </ul>
3. Answer these questions.
1) How do computers contribute to education according to the text?
2) What role do computers play in the business world?
3) How are computers utilized in scientific research?

4) What are some of the everyday uses of computers mentioned in the text?

5) 1	How do computers support the healthcare industry?
_	
4. 7	The sentence is True or False.
	Computers are essential tools in education, according to the text.  In the business world, computers streamline operations but do not improvivity.
	Computers play a minor role in scientific research, primarily assisting with basi
calculati	
4) devices.	Computers have limited use in daily life, mainly serving as communication
5) I	Healthcare professionals do not rely on computers for patient records managementostic tools.
<b>5.</b> T	Franslate the following English units into Ukrainian.
1) (	On the cutting edge of technology
2) I	Byte-sized information -
3) 1	The information superhighway
4) I	Plug and play To crash
6) I	In the digital age
6. (	Give synonyms to the words in <u>bold</u> type.
1) 7	This <b>essential</b> safeguard must be retained.
2) 7	This will help organize and <b>streamline</b> your actions.
3) 7	The twentieth century was <b>pivotal</b> as regards children.
4) 4	And he couldn't <b>engage</b> socially with people.
5) 1	Domestic workers provide an <b>indispensable</b> contribution to society.

• Миша (комп'ютерна) –		
• Комп'ютер –		
• Клавіатура –		
<ul><li>Монітор –</li></ul>		
<ul><li>Принтер —</li></ul>		
<ul><li>Сканер –</li></ul>		
• Мережа –		
• Програмне забезпечення -	_	
• Апаратне забезпечення –		
<ul> <li>Операційна система –</li> </ul>		
<ul> <li>Веб-браузер –</li> </ul>		
<ul> <li>Електронна пошта –</li> </ul>		
<ul> <li>Жорсткий диск –</li> </ul>		
• Хмарне сховище –		
• Процесор –		
• Флеш-накопичувач –		
<ul><li>Завантажити (файл) –</li></ul>		
• Завантажити (на сервер) –	-	
<ul><li>Брандмауер –</li></ul>		
• Антивірусна програма –		
Explain this word in English     Information processing cy		
• Motherboard		
Motherboard -  9. Fill in the blanks with the note.	ecessary words in the	e box.
9. Fill in the blanks with the no	ecessary words in the	e box.  pivotal
9. Fill in the blanks with the no	ecessary words in the	e box.  pivotal

3) Understanding how to operate a computer is \_\_\_\_\_\_ for success in today's

many industries.

digital age.

# 10. Fill in the correct form of the present perfect tense (Present Perfect or Present Perfect Continuous).

1. Our team (complete) the migration to the new server architecture.
2. I (try) to resolve this network issue for over two hours now.
3. She (not update) the project documentation since last week.
4. We (use) GitHub for version control for several years.
5. The developers (work) on the UI redesign all morning.
6. They (already deploy) the patch to the production environment.
7. Why you (ignore) the error logs in the system?
8. He (test) the beta version for bugs, but hasn't found anything critical yet.
9. I (just finish) writing the API integration module.
10. The system (crash) three times this week due to memory leaks.
11.We (monitor) the server performance since yesterday.
12.She (not push) her latest changes to the repository yet.
13.Our IT department (upgrade) the infrastructure since last month.
14.I (notice) several unauthorized login attempts recently.
15.You (download) large files again, which is slowing down the connection.
11. Complete each sentence using the most appropriate tense form (Present Simple / Present Continuous / Present Perfect / Present Perfect Continuous).
1. I (use) this program for years, and it still works perfectly.
→ use / am using / have used / have been using
2. She usually (search) for information using Google Scholar.  → searches / is searching / has searched / has been searching
3. My computer (crash) three times this week!
→ crashes / is crashing / has crashed / has been crashing
4. What (you/do)? The screen is frozen!
→ do you do / are you doing / have you done / have you been doing
5. We (not/save) any files since the last update.
<ul> <li>→ don't save / are not saving / haven't saved / haven't been saving</li> <li>6. The developers (update) the software all night.</li> </ul>
→ update / are updating / have updated / have been updating
7. He (connect) the new printer to the system right now.
→ connects / is connecting / has connected / has been connecting

8.	I (install) this software twice already.
	→ install / am installing / have installed / have been installing
9.	Why (this screen/not/work)? It was fine yesterday.
	→ does this screen not work / isn't this screen working / hasn't this screen
	worked / hasn't this screen been working
10	They (use) the same password for months without problems.
	→ use / are using / have used / have been using
	12. Complete each sentence with the correct tense (Present Simple / Present
	inuous / Present Perfect / Present Perfect Continuous), and explain your choice
brief	ly in brackets.
1	I (save) my documents on a USB stick for years.
1.	
	→ (your answer)
_	(Why this tense?)
2.	She (search) for her project file right now.
	→ (your answer)
•	→ (Why this tense?)
3.	He (install) the update, so now everything works faster.
	$\rightarrow$ (your answer)
	$\rightarrow$ (Why this tense?)
4.	We (use) this website to study coding every day.
	$\rightarrow$ (your answer)
	→ (Why this tense?) I (try) to fix this bug since this morning.
5.	I (try) to fix this bug since this morning.
	$\rightarrow$ (your answer)
	$\rightarrow$ (Why this tense?)
6.	→ (Why this tense?) (crash) when I open too many apps.
	→ (your answer)
	$\rightarrow$ (Why this tense?)
7.	→ (Why this tense?) The students (upload) their essays for over an hour now.
	$\rightarrow$ (your answer)
	$\rightarrow$ (Why this tense?)
8.	We (not/install) the program yet.
	$\rightarrow$ (your answer)
	$\rightarrow$ (Why this tense?)
9.	She (connect) to the server at the moment.
	$\rightarrow$ (your answer)
	$\rightarrow$ (Why this tense?)
10	O.I (not/understand) how this new interface works.
	→ (your answer)
	$\rightarrow$ (Why this tense?)

# 13. Match the beginnings (A) with the correct endings (B). Each sentence uses one of the four present tenses.

### A

- 1. I've been trying
- 2. He's downloading
- 3. We usually connect
- 4. The system has just
- 5. My teacher is showing
- 6. They've never used
- 7. Why are you updating
- 8. I haven't logged in
- 9. She always saves
- 10.I am not using

### В

- a. the Wi-Fi automatically at school.
- b. a program that blocks pop-ups.
- c. her files in a special folder.
- d. to fix this issue all day.
- e. since Monday because I forgot my password.
- f. a new app from the internet.
- g. their emails on a desktop computer.
- h. right now the battery is dead.
- i. crashed again for no reason.
- j. your browser so often?

### 14. Find and correct the mistake in each sentence.

- 1. I am know how to update the software.
- 2. She has been upload files right now.
- 3. We didn't log in yet.
- 4. He have installed the latest version.
- 5. They uses the same password every time.
- 6. What do you doing with my computer?
- 7. My screen freezes all morning.
- 8. The students are used their phones for research.
- 9. I download music at the moment.
- 10. He has working on the coding task all day.

# 15. Complete the dialogues using the correct tense and vocabulary. Use a different tense each time.

	1.
A:	Thy is the internet so slow?
	(upload) a large video file.
	2.
A:	(you/save) the document?
B:	ot yet! I'll do it now.
	3.
A:	That (he/do)?
B:	e's updating the system software.
	4.
A:	can't find my files!
B:	(aybe you (not/log in) properly.
	5.
A:	(you/ever/use) that 3D design program?
B:	o, never. Is it good?

# 16. Use the words to write full sentences. Change the tense and form of the verbs as needed.

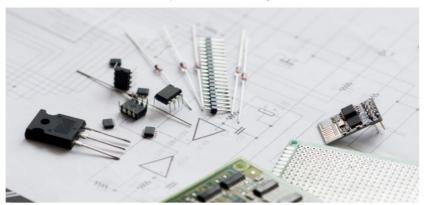
- 1. we / not / install / any updates / yet
- 2. she / use / this keyboard / every day
- 3. I / try / fix / the crash / for hours
- 4. he / currently / search / some files
- 5. the laptop / freeze / three times / this week
- 6. I / connect / the printer / at the moment
- 7. they / never / use / this app before
- 8. my friend / upload / files / all afternoon
- 9. the technician / not / finish / update / yet
- 10.what / you / usually / do / when / computer crash?

17.Write an opinion paragraph about how computers help or harm productivity in different workplaces. Support your ideas with examples. Word count: 150-200 words.

## UNIT 3. Computer architecture

### TASKS:

### 1. Read the text and briefly write its meaning.



Computer architecture describes the overall blueprint of a computer system, outlining how various components work together to achieve the device's primary function – data processing – without delving into the specific technical construction.

Today, computers play a fundamental role in nearly every organization's infrastructure. This includes everything from desktop machines in office environments to mobile devices and smart wearables used for remote work. Despite their diversity in size and form, all computers are built upon fundamental concepts that dictate how hardware and software interact. These guiding principles are collectively referred to as computer architecture. At its core, computer architecture defines how the system's internal elements are structured and how they collaborate to perform operations. It also establishes the framework upon which both programming languages and processors are developed. Two key paradigms dominate processor design: the Complex Instruction Set Computer (CISC) and the Reduced Instruction Set Computer (RISC) architectures.

CISC-based systems typically feature a single processing unit, additional memory for support, and a compact register set with a wide array of specialized instructions. These processors are capable of completing tasks using individual, complex commands. This design simplifies programming efforts, as fewer instructions are needed, but it can result in slower execution times due to the complexity of the operations.

In contrast, the emergence of RISC architecture was driven by a need for faster, more efficient computing. RISC systems are built around the idea of simplifying hardware and speeding up operations by using straightforward instructions to perform even complex tasks, often requiring more commands but executing them more rapidly.

_	2. Answer these questions.  1) What does the term "computer architecture" refer to?
-	2) How are computers described in terms of their significance within organizations
_	3) What foundational principles underlie all computers, regardless of their size?
-	4) How is computer architecture defined in the text?
the to	5) What are the two predominant approaches to computer architecture mentioned in ext?
	6) How do CISC processors differ from RISC processors in terms of instruction ution?
	7) What led to the development of high-performance computers based on the RISC itecture?
	8) Can you explain the difference between a complex instruction set computer C) and a reduced instruction set computer (RISC)?
	9) How does the choice of architecture affect the functioning of computer essors?
_	10) What are some characteristics of RISC-based hardware mentioned in the text?
_	

### 2. The sentence is True or False.

- Computing devices form a critical part of modern organizational systems, encompassing everything from office desktops to mobile gadgets and smart accessories used for remote tasks.
- Every computing system, whether large or small, operates based on core concepts that define how its physical components and software interact to enable functionality.
- Reevaluating existing systems paved the way for the development of advanced computing solutions built upon the RISC model.
- CISC-based processors are structured with a single core, additional memory support, and a compact set of registers capable of handling numerous specialized instructions.
- The two main architectural philosophies shaping processor operation are the CISC model, which uses complex instructions, and the RISC model, which relies on simpler, more streamlined commands.
- RISC-based high-speed computer systems feature minimalistic hardware engineered for speed, enabling the execution of complex tasks using straightforward instructions.

### 4. Translate the following English units into Ukrainian.

1) Ruilding on solid foundations-

2) Turning the tide-
3) Cutting through the complexity
5. Give synonyms to the words in <b>bold</b> type.
1) <b>The processor</b> is what determines the speed and performance of your laptop.
2) <b>Interrupts</b> can slightly disrupt the timing of code, however, and may be disabled for particularly critical sections of code.
3) The Electronic <b>Control Unit</b> (ECU) controls the fuel injection system and the ignition timing of almost any modern engine.

▲ Mouimon-		
<ul><li>Тошоватура</li><li>Транзистор-</li></ul>		
<ul> <li>Аккумулятор-</li> </ul>		
<ul> <li>Поєднання клавіш-</li> </ul>	· · · · · · · · · · · · · · · · · · ·	<del></del>
• Камера-		<del></del>
• 4in-		
	English without using the	
• Instruction Set-		
• Memory-		
• Registers-		
8. Fill in the blanks with	the necessary words in the	he box.
Cache	algorithm	motherboard
clock speed	input data	Virtual Memory
3) Authors may be asked (4) The serves to 5) is divided (5)	e IP yourself, then of to provide for the connect all of the parts of into kernel space and the usent Simple, Present Control of the parts of the par	editorial review. f the computer.
	_ (process) information	n faster than ever before.
→ use: (read) a → use: (read) a	bout how the control ur	nit works since this morning.
3. A computer usually → use:	(perform) milli	ons of operations per second.
4. The student motherboard. → use:	(not/understand) how the	he components connect to the
		new power supply right now.
6. Our IT team → use:	(replace) d	amaged parts all week.

6. Translate Ukrainian to English.

7. My teacher (explain) the function of RAM in every lesson.  → use:			
<ul> <li>→ use:</li></ul>			
9. Why (the system / crash) every time we try to access the hard drive?			
→ use: (transfer) data between two systems at the moment.  → use:			
10. Each sentence has one grammar mistake related to tense. Correct it.			
1. The processor is perform thousands of calculations per second.			
2. I work on this diagram since last night.			
3. They have install the hard drive incorrectly.			
4. What do you connecting to the motherboard?			
5. RAM stores temporary data while you are used the system.			
6. He has explained the data flow model right now.			
7. The students is testing different power supplies.			
8. We not used the new control unit yet.			
9. Why has the computer crashing every hour?			
10.I have been download drivers for the last 30 minutes.			
11. Complete the dialogue using the correct tense and vocabulary. Use different tenses in each gap.			
A: Hi, I need help with my computer. It (not/perform) well lately.  B: What's the problem exactly?			
A: The system (crash) several times today.  B: Hmm Let me check. Oh, the power supply (not/connect) properly.			
A: I see. I (try) to fix it myself, but I wasn't sure.			
<b>B:</b> No worries. I (replace) a similar part right now on another computer. I'll help you next.			
12. Choose the correct verb tense in context.			

- 1. The computer (a. processes / b. is processing / c. has processed / d. has been processing) data non-stop since 9 a.m.
- 2. Our IT technician (a. updates / b. is updating / c. has updated / d. has been updating) the motherboard drivers right now.

- 3. This port (a. connects / b. is connecting / c. has connected / d. has been connecting) external devices to the CPU.
- 4. I (a. don't use / b. am not using / c. haven't used / d. haven't been using) my hard drive since I changed computers.
- 5. Why (a. do you check / b. are you checking / c. have you checked / d. have you been checking) the system logs for the last 10 minutes?
- She (a. always configures / b. is always configuring / c. has always configured / d. has been always configuring) the network incorrectly.
- 7. The students (a. run / b. are running / c. have run / d. have been running) simulations every week.
- 8. I (a. transfer / b. am transferring / c. have transferred / d. have been transferring) large files since morning.
- 9. We (a. don't open / b. aren't opening / c. haven't opened / d. haven't been opening) this case yet.
- 10. The control unit (a. controls / b. is controlling / c. has controlled / d. has been controlling) the data flow automatically.

# 13. Fill in the blanks in the IT technician's journal using appropriate present tenses.

System Check – Technician's Log			
(start) with a review of the main components.			
(check) the RAM usage every hour.			
U (handle) the tasks efficiently.			
(transfer) large files between the hard drives since noon.			
ard (connect) all other parts with no issues.			
(install) an updated version of the BIOS.			
(not/finish) the backup process yet.			
(report) slower boot times recently.			
(not/find) any hardware damage so far.			
(test) multiple output ports to ensure stable connections.			

### 14. Match and make sentences. Choose the appropriate present tense.

### **Actions:**

- 1. I (install) a new CPU
- 2. The students (test) the ports
- 3. She (not/save) the changes
- 4. He (study) computer architecture for weeks
- 5. We (use) flash storage now

- 6. They (not/understand) data buses
- 7. My PC (crash) since morning
- 8. You (connect) the cables incorrectly
- 9. I (learn) how the power supply works
- 10.We (not/finish) the wiring yet

### Results (match to actions):

- a. so we can't move to the next task.
- b. and the old one is removed.
- c. and we can test the storage.
- d. so the system keeps failing.
- e. so she lost her work.
- f. because it's a bit confusing.
- g. and I feel more confident now.
- h. so they know how they work now.
- i. so nothing works properly.
- j. because we needed something faster.

# 15. Dialogue completion - Fill in the appropriate present tense.

	1.
A:	(you/test) the new motherboard?
B:	Yes, I (you/test) the new motherboard? Yes, I (just/finish) that.
	2.
A:	What (she/do) now?
B:	She(connect) the new RAM module.
	3.
A:	I (study) CPU speed this week.
B:	Oh, I (study) that too!
	4.
A:	My PC (not/respond) lately.
B:	Maybe the power supply (fail).
	5.
A:	How long (they/work) on this model?
	Since Monday.
	6.
A:	The control unit (not/work) again!
B:	That's the third time it (crash) today!
	7.
A:	I (use) the same storage device for years.
B:	Really? I (change) mine twice already.
	8.
A:	(you/ever/learn) how buses transfer data?
B:	No, but I (plan) to.
	9.

<b>A:</b> Why	(you/always/test) the same component?
<b>B:</b> Because it	(fail) randomly.
10.	
A: We	(look) at the internal parts.
B: Cool! I	(watch) a video about that too.

# 16. Write a 5-7 sentence report about a computer repair process. Use all four present tenses at least once. Include vocabulary from the unit.

Example:

Today I'm repairing a desktop computer. I have already replaced the power supply, and I'm now testing the data ports...

17. Write a comparison report of two types of computer architecture and recommend the best option for a budget-friendly PC. Word count: 180-220 words.

UNIT 4. Operating System. Software

### TASKS:

## 1. Read the text and briefly write its meaning.



An operating system is the essential software layer that governs the computer's hardware and ensures the smooth operation of application programs. It functions as a mediator between physical components and the software used by end users, handling communication and resource coordination. One of its core responsibilities is managing hardware resources – such as the CPU, memory, and peripheral devices – by distributing them efficiently among different programs and users. It also oversees process execution, organizing and controlling multiple tasks by scheduling and synchronizing them to allow for multitasking. In terms of memory, the operating system is in charge of allocating and

freeing memory space for applications, as well as managing virtual memory to simulate more capacity than the physical memory provides. Additionally, it administers the file system by organizing, storing, retrieving, and securing files, while also maintaining directory structures. To facilitate user interaction, the OS offers various interfaces, including graphical and command-line environments, through which users can operate and manage the system.

### Software

Software encompasses a broad range of programs, applications, and data that enable users to perform specific tasks on a computer system. It includes:

System Software: System software includes the operating system itself, as well as utility programs that facilitate system maintenance, such as disk management tools, antivirus software, and device drivers.

Application Software: Application software refers to programs designed to perform specific tasks or functions for end-users, such as word processors, web browsers, multimedia players, and productivity suites.

Programming Software: Programming software provides tools and environments for software developers to create, debug, and maintain computer programs. Examples include integrated development environments (IDEs), compilers, and debuggers.

Middleware: Middleware acts as a bridge between application software and system software, providing services such as database management, communication protocols, and transaction processing for distributed systems.

Data: Data refers to information stored and processed by software applications, including text documents, images, databases, and multimedia files.

Importance of Operating Systems and Software

Operating systems and software play critical roles in enabling computer systems to perform various tasks and functions efficiently. They provide the necessary infrastructure, tools, and interfaces for users to interact with computer hardware and accomplish their goals. Whether managing system resources, running applications, or processing data, operating systems and software are essential components of modern computing environments. Their continuous development and improvement drive innovation and productivity across various industries and domains.

2. Answer these questions.  1) How does an operating system manage system resources?	
2) What are some key functions of operating systems?	
3) Can you give examples of system software and application softw	are?

4) What role does middleware play in software architecture?
5) Why are operating systems and software considered essential components of modern computing environments?
<ul> <li>3. The sentence is True or False.</li> <li>1) An operating system serves as the foundational software that manages computer hardware and provides essential services for running applications.</li> <li>2) Operating systems primarily focus on managing peripheral devices such as</li> </ul>
printers and scanners.  3) Application software encompasses a broad range of programs, applications, and data that enable users to perform specific tasks on a computer system.  4) Programming software refers to programs designed to perform specific tasks or functions for end-users, such as word processors and web browsers.  5) Middleware acts as a bridge between application software and system software, providing services such as database management and communication protocols.
4. Translate the following English units into Ukrainian.  1) The backbone of computing
1) Innovation may concern products or processes.  2) Critical analysis is impossible without admissible input.
3) Foundational and institutional capacity has been strengthened at the national level in some countries, and also at the regional and global levels.
4) Popular <b>Integral</b> Glazing Pleated Blinds in Glass.

and
d to
1

8.	The new programming language is (powerful) but also more difficult to learn.						
9	Our team's approach to cybersecurity is (comprehensive) than before.						
ر 10	This device is (compact) and easier to carry than the older models.						
11	The AI system provides (accurate) predictions after training with more						
	data.						
12	.The upgrade makes the database (reliable) and less prone to crashes.						
	13. This software is (compatible) with multiple operating systems.						
14. The latest processor is (efficient) in energy consumption than the							
	previous generation.						
15	Their technical support is the (responsive) among all service providers						
	we've tried.						
1	0. Fill in the correct form: Adjective or Adverb.						
10. Fin in the correct form. Adjective of Adverb.							
1.	The software runs (efficient/efficiently) on most operating systems.						
2.	She explained the new protocol very (clear/clearly) during the meeting.						
3.	This program is (secure/securely) designed to protect user data.						
4.	The server performed (stable/stably) throughout the stress test.						
5.	Developers are (quick/quickly) adapting to the updated coding						
	standards.						
6.	The user interface looks (modern/modernly) compared to the previous						
7	version.						
/.	The new update installs (automatic/automatically) without user						
Q	intervention.  He is a (reliable/reliably) technician who always solves problems fast.						
0.	The application is (compatible/compatibly) with both Mac and						
٦.	Windows systems.						
10	The program crashed (sudden/suddenly) during the demo presentation.						
11	The network traffic is managed (efficient/efficiently) to avoid						
	congestion.						
12	The system administrator responded (prompt/promptly) to the security						
	breach.						
13	.This cloud service is highly (scalable/scalably) for large enterprises.						
14	.The new encryption algorithm works (secure/securely) under various						
	conditions.						
15.	She writes code very (clean/cleanly), which reduces bugs.						
11. Each sentence contains one error related to adjective comparison.							
	1. Windows is more faster than Linux.						
	2. This version is the goodest so far.						
	3. Mac is as more stable than Ubuntu.						
	4. That system is most secured.						
	5. It's one of the more expensive software.						

- 6. This update is the less useful.
- 7. My system isn't so newer as yours.
- 8. It's the baddest interface I've seen.
- 9. This OS is much user-friendlier.
- 10.Linux is the most safest operating system.

## 12. Build mini-dialogues with comparisons

Use adjectives like: fast, stable, good, secure, friendly, compatible, useful, modern, efficient, popular.

1.						
A: Is Windows faster than Linux?						
3: Yes, but Linux is in terms of updates.						
2.						
A: Which system is more user-friendly?						
B: I think is the most user-friendly.						
3.						
A: This interface looks better.						
B: Yes, it's and than before.						
4.						
A: I need a secure OS.						
B: Try – it's the I've used.						
5.						
A: Which antivirus is better?						
B: is much than the free one.						
(Continue for 5 more dialogues)						
`						
13. Write 10 sentences comparing any two systems (e.g., Windows vs Mac, Linux						
vs Chrome OS). Use adjectives such as:						
<ul> <li>fast, stable, efficient, secure, flexible, expensive, helpful, compatible, modern, intuitive</li> </ul>						
Example:						
Windows is more flexible than Mac OS, but Mac OS is more stable. The Windows						
interface is more customizable, but the Mac interface is cleaner						
meriace is more customizately out the meriace is citation						
14. Rewrite the sentence using a superlative form						
1 North annual in Catalain						
1. No other program is as fast as this one.						
<ul> <li>→ This is</li></ul>						
<ul><li>→ This is</li><li>3. That system is better than all the others.</li></ul>						
→ That is4. None of the tools were as useful as this.						
This tool was						

5. Other updates were less stable than this one.
<ul><li>→ This was</li><li>6. No previous version was as clear as this.</li></ul>
6. No previous version was as clear as this.
→ This is  7. I've never used an app more intuitive than this.
This is
8. The new layout is nicer than all the previous ones.
$\rightarrow$ It's
9. I haven't seen a worse error than this.
→ This is
10. All other systems are cheaper than this.
→ This is
15. For each sentence, choose the correct comparative or superlative form of the adjective provided in parentheses.
1. Keeping your operating system updated is (important) for security than
just having an antivirus program; it patches vulnerabilities.
2. Viruses are a (serious) threat to data security than minor software bugs,
potentially leading to identity theft.
3. Some software vulnerabilities are (dangerous) than others, potentially
allowing remote access to your system.
4. Regular security patches make your system (safe) against new, evolving threats.
5. The (recent) security update fixed several critical vulnerabilities in the
system, preventing potential attacks.
6. Using strong, unique passwords is (effective) for online security than
using easily guessed ones.
7. Two-factor authentication adds an (extra) layer of security to your
accounts.
8. Public Wi-Fi networks are generally (risky) for sensitive transactions
than private, secure networks.
9. Outdated software is often (vulnerable) to attacks than updated
versions.
10. The (common) way malware spreads is through suspicious email
attachments.  11. Firewall protection is (crucial) for preventing unauthorized access to
your computer.
12. Being aware of phishing scams is (necessary) for online safety.
13. Encrypting your data makes it (difficult) for unauthorized parties to
access.
14. Some security suites offer (comprehensive) protection than basic
antivirus software.

15. It is (wise)	to back up your da	ata regularly to pro	tect against data loss
from security breaches.			
16. Complete the sente	nces to compare an	d contrast differe	nt operating systems
based on their characteristi	cs.		
1. Modern operating syst	ems are (complex)	than ol	der ones, which were
often quite basic.			
2. Among all the options		bly the (popular)	operating
system in the world, us 3. For many new users, m		to loom that	n I imuur aamaaiallu ita
command-line interfac		to learn than	1 Linux, especially its
4. Linux distributions are	often (customizable	e) than o	commercial operating
systems, offering more 5. A new operating system	reedom.	od) sad	surity factures than an
outdated one, protecting		ou) sec	unity reatures than an
6. Some argue that mobile		ns are now (power	ful) than
desktop operating syste	ems were a decade a	igo.	
7. Android is one of the (	flexible)	_mobile operating	systems available on
various devices.			
8. ChromeOS is genera	lly considered (lig	htweight)	than Windows,
making it ideal for bud 9. Choosing the (appropr		aratina system dan	ands antiraly on your
specific needs and hard	late) op Iware	crating system dep	chas chinciy on your
10. The user interface of an	n operating system of	an make it feel (int	tuitive) or
(difficult) t	o navigate.		
11. Historically, DOS was	much (minimalist)	than a	any current graphical
user interface.	( . 11 )		4 .
12.Linux often provides a		_ environment for	servers compared to
some other operating s 13. The (recent)		Windows have	shown significant
improvements in speed		windows have	shown significant
14.It's often (wise)	to consider use	r reviews when sele	ecting a new operating
system.			
15. Some niche operating general-purpose ones.	systems are much	(specific)	in their use than
48337.4			
17.Write an email to (Windows, macOS, or Linu			
180 words	*	Dusiness and Wily	. word count. 150-

#### UNIT 5. Peripheral equipment of computers

#### TASKS:

#### 1. Read the text and briefly write its meaning.

Peripheral equipment refers to external devices that connect to and interact with a computer, expanding its capabilities and functionality. These peripherals can be broadly classified into input devices, output devices, devices. storage communication devices. Each type plays a critical role in the overall operation and experience of a computer system. Let's delve into the various categories and examples peripheral equipment.



Peripheral equipment is essential for maximizing the functionality and versatility of computers. They enable user interaction, enhance multimedia experiences, provide additional storage options, and facilitate connectivity and communication. As technology advances, the variety and capability of peripheral devices continue to grow, offering more specialized and sophisticated options to meet the evolving needs of users.

In conclusion, peripheral equipment plays a pivotal role in the computing ecosystem, extending the capabilities of computers beyond their core functions. Understanding and selecting the right peripherals can significantly enhance productivity, user experience, and the overall utility of a computer system.

#### 2. Answer these questions.

1) What is peripheral equipment in the context of computers?
2) Into which main categories can peripheral devices be classified?
3) Why is peripheral equipment important for computers?

=	4) How do advancements in technology affect peripheral devices?
-	5) What are some examples of specialized peripherals and their uses?
	3. The sentence is True or False. 4.
	1) Peripheral equipment refers to internal devices that are part of the computer's
	system.
	2) Input devices include keyboards, mice, scanners, microphones, and webcams.
	3) Output devices convey information from the computer to the user, such as
	itors and printers.
	<ul><li>4) Storage devices cannot be external.</li><li>5) Communication devices like modems and Wi-Fi adapters enable computers to</li></ul>
	ect to networks.
	6) Peripheral equipment does not affect the overall user experience of a computer
syste	
2,200	····
	4. Translate the following English units into Ukrainian.
	1) 11
	1) Hot-swappable-
	2) Peripheral interface-
	3) Peripheral connectivity
	4) User interaction
	5. Give synonyms to the words in <u>bold</u> type.
	1) This design has two additional pins to provide extra power to the <b>peripheral</b>
devi	ce.
	2) What Is Google's New "Next Generation Personal Communication Device"?
	3) Further <b>speakers</b> at the conference will be announced later.
	4) <b>Webcam</b> interlocutor can show only what he wants.

6. Translate Ukraini	an to English:	
<ul><li>Сканер</li></ul>		
<ul><li>Планшет</li></ul>		
• Термінал точк	ки продажу	
• Пристрій виво	ody	
• Пристрій введ	дення	
7. Explain this word	in English without using the gi	ven word itself.
• Wi-Fi		
• HDMI (High-L	Definition Multimedia Interface)	
• Entownal Hand	D :	
• External Hara	Drive	
8. Fill in the blanks	with the necessary words in the	box.  external
8. Fill in the blanks	with the necessary words in the	box.  external
8. Fill in the blanks weyboard Hot-swappable  1. The USB dongle.	with the necessary words in the  communication HDMI  offers multiple connectivity optio	external POS ons, including Bluetooth ar
8. Fill in the blanks weekeyboard Hot-swappable  1. TheUSB dongle.	with the necessary words in the  communication HDMI  offers multiple connectivity optio	external POS ons, including Bluetooth ar
8. Fill in the blanks weyboard Hot-swappable  1. TheUSB dongle. 2) Ainto	with the necessary words in the  communication HDMI  offers multiple connectivity optio	external POS ons, including Bluetooth are ag audio and video data.
8. Fill in the blanks weyboard Hot-swappable  1. TheUSB dongle. 2) A into 3) devi	with the necessary words in the  communication HDMI  offers multiple connectivity optio	external POS ons, including Bluetooth are ag audio and video data.
8. Fill in the blanks weyboard Hot-swappable  1. The USB dongle. 2) A into devine devine devine to networks.	with the necessary words in the  communication HDMI  offers multiple connectivity optio erface is a standard for transmittin ces like modems and Wi-Fi adapt	external POS  ons, including Bluetooth and a sers enable computers to
8. Fill in the blanks weyboard Hot-swappable  1. The	with the necessary words in the  communication HDMI  offers multiple connectivity optio	external POS  ons, including Bluetooth and a sers enable computers to
8. Fill in the blanks weyboard Hot-swappable  1. The	with the necessary words in the  communication HDMI  offers multiple connectivity optio erface is a standard for transmittin ces like modems and Wi-Fi adapt	external POS  ons, including Bluetooth and a sers enable computers to diditional backup and data
8. Fill in the blanks weyboard Hot-swappable  1. The	with the necessary words in the  communication HDMI  offers multiple connectivity option erface is a standard for transmitting cess like modems and Wi-Fi adapt age solutions are often used for ad	external POS  ons, including Bluetooth and a sers enable computers to diditional backup and data
**Reyboard Hot-swappable**  1. TheUSB dongle. 2) Ainto a device to networks. 4) storausfer. 5) device mputer. 6) A te	with the necessary words in the  communication HDMI  offers multiple connectivity option erface is a standard for transmitting cess like modems and Wi-Fi adapt age solutions are often used for ad	external POS  ons, including Bluetooth and a sudio and video data. Hers enable computers to additional backup and data and shutting down the
8. Fill in the blanks of the swappable  1. The	with the necessary words in the  communication HDMI  offers multiple connectivity option erface is a standard for transmittin ces like modems and Wi-Fi adapt age solutions are often used for act s can be added or removed without	external POS  ons, including Bluetooth ar ag audio and video data. ters enable computers to ditional backup and data at shutting down the
keyboard Hot-swappable  1. The	with the necessary words in the  communication HDMI  offers multiple connectivity option erface is a standard for transmittin ces like modems and Wi-Fi adapt age solutions are often used for act s can be added or removed without	external POS  ons, including Bluetooth ar ag audio and video data. ters enable computers to ditional backup and data at shutting down the

2) An interesting problem was discussed in the lecture.	
3) All calculations will be performed by a computer.	
4) English is spoken all over the world.	
5) This University is well-known in Ukraine.	
10. Fill in the correct form of the past tense (Past Simple or Past Continuou  1. While the system (crash), the team (try) to restore the backup  2. I (install) the new software when the power (go) out.  3. They (fix) the bug all day yesterday.  4. When the server (stop) responding, the technician diagnostics.	<b>5.</b>
<ul><li>5. She (update) the database while I (monitor) the network</li><li>6. The developers (work) on the code when the client suddenly (call).</li></ul>	: <b>.</b>
<ul> <li>7. Yesterday, the firewall (block) unauthorized access attempts several times</li> <li>8. While the backup process (run), the users (experience) performance.</li> </ul>	s. slow
9. He (not receive) the error report because his email (not work 10.The IT team (set up) the new servers when the outage (occur 11.The application (freeze) while I (submit) the report. 12.When I (check) the logs, I (notice) several unusual activities. 13.The support team (resolve) the issue before the meeting	·).
(start).  14. While the system (update), the users (complain) about downtime.  15. The programmer (debug) the code when the system unexpectedly	
(reboot).	

#### 11. Choose the correct verb form (Past Simple or Past Continuous)

- 1.I (used / was using) the printer when it suddenly stopped working.
- 2. They (installed / were installing) the webcam all afternoon.
- 3. While she (adjusted / was adjusting) the monitor, the lights went out.
- 4.He (didn't hear / wasn't hearing) me because he (wore / was wearing) headphones.
- 5. We (tested / were testing) the speakers when the system crashed.
- 6.I (plugged in / was plugging in) the USB stick while the antivirus (scanned / was scanning) the system.
- 7.She (calibrated / was calibrating) the touchscreen while I (connected / was connecting) the projector.
  - 8. I (tried / was trying) to fix the mouse, but I (didn't have / wasn't having) the right tools.
- 9. The technician (explained / was explaining) the setup while I (took / was taking) notes.
- 10. While we (were updating / updated) the drivers, the screen (froze / was freezing).

#### 12. Fill in the correct form of Gerund or Infinitive (with or without to).

1.	He decided (update) the software before the deadline.
2.	The team avoided (restart) the server during peak hours.
3.	We plan (migrate) the database next month.
4.	She suggested (test) the application thoroughly before release.
5.	They promised (fix) the bugs by the end of the week.
6.	I enjoy (debug) complex code problems.
7.	The manager encouraged the developers (learn) new programming
	languages.
8.	The system failed (connect) to the network after the update.
9.	Our goal is (improve) system security continuously.
10	.He admitted (make) mistakes in the earlier version of the software.
11	.We expect (receive) the new hardware by Friday.
12	.The technician postponed (install) the new patches due to the outage.
13	.It's important (document) all changes accurately.
14	.They started (develop) a new feature last week.

	_	-		_	
13	3. Write a shor	t 10-sentence story al	bout a time whe	n someone had pro	blems
		ompute peripherals (			
Use at	least:				

15. The IT department needs \_\_\_\_\_ (train) staff on the new protocols.

- 3 Past Simple
- 2 Past Continuous
- 2 Gerunds as subject/object
- 1 Gerund after a preposition2 Active voice constructions

# 14. Choose the correct form (gerund or infinitive) of the verb in brackets.

1. He tried	_ (reconnect / reconnecting) the printer, but it didn't work.
2. I decided	(replace / replacing) the broken mouse.
3. She enjoys	(use / using) a graphics tablet for design.
4. They plan	(upgrade / upgrading) the speakers next week.
5. I avoided	(touch / touching) the USB cable during the transfer.
6. He suggested	(test / testing) the projector before class.
7. We hope	(fix / fixing) the webcam by Friday.
8. I finished	(install / installing) the software this morning.
9. They offered	(help / helping) me with the calibration.
10.She refused	(adjust / adjusting) the brightness again.
	ntences using the correct form of the verb. Fill in the blanks the verbs provided in parentheses.
	(click / clicking) on suspicious links to protect her
computer.	(
*	(choose / choosing) a reliable Internet service provider.
	(browse / browsing) the web for interesting articles.
4. They suggested	(create / creating) a new email address for privacy.
	(use / using) outdated software to prevent security risks.
	(connect / connecting) the router to the modem this evening.
	(download / downloading) the updates before the
meeting.	
8. I decided	(subscribe / subscribing) to a faster Internet plan.
	(share / sharing) his username and password with anyone.
10. They offered	(assist / assisting) in setting up the new office network.

#### 16. Fill in the blanks with the correct form of the verb in parentheses

1. He relies on	(search / searching) engines to find quick answers online.
2. We enjoy	(explore / exploring) new websites that offer educational
resources.	
3. They prefer	(connect / connecting) to Wi-Fi instead of using mobile
data.	
4. She avoided	(download / downloading) files from untrusted sources.
5. I recommend	(use / using) strong passwords for all online accounts.
6. They continued	(stream / streaming) the lecture despite the slow
Internet speed.	
7. He learned	(navigate / navigating) the World Wide Web efficiently.
8. She hesitated	(register / registering) on the website without reading
its privacy policy.	
9. We suggest	(update / updating) software regularly to improve
security.	
10 He stopped	(visit / visiting) outdated websites that offer incorrect

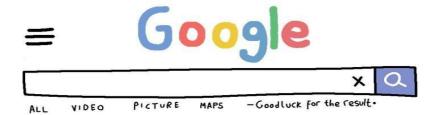
17. Write a recommendation list for the peripheral equipment needed in a shared office space. Explain how each item supports daily tasks. Word count: 150–180 words.

#### UNIT 6. Internet and Websites

#### TASKS:

1. Read the text and briefly write

information.



#### The Internet and Information Revolution

Back in 1969, a U.S. government agency called DARPA created a way for computers to communicate over phone lines, which led to the development of a network called DARPANET. Later, in 1984, the National Science Foundation built another system called NSNET, linking five powerful supercomputers. As more people and organizations wanted to connect, NSNET evolved into what we now call the Internet.

Today, millions of computers around the world are connected to this global network. One of its most widely used parts is the World Wide Web – a huge collection of documents that include text, images, and sounds from all over the world.

The Internet provides access to an enormous amount of information on nearly any subject. Every day, millions of people use it, and it has become the largest information source on Earth. It's also becoming an essential tool for students and teachers alike.

To get online, you need an Internet service provider, which connects your computer to the Internet through your phone line. If you already know the website you want to visit, you just type in the address and go straight there. If not, you can use a search engine or a directory – like Yahoo!, AltaVista, or Infoseek – to help you find what you're looking for. You can search by categories or by typing in specific words related to your topic.

1) What is exactly the Internet?
2) What kind of information can you find there?
3) How can you access the information?
4) In what country did the Internet start?
5) What was the original purpose?

#### 3. The sentence is True or False.

2. Answer these questions.

- 1) DARPANET was created in 1969 by the US Defence Advanced Research Projects Agency for computers to communicate via the telephone.
- 2) The NSNET network was started by the US National Science Foundation in 1984 and involved five supercomputer centers.
  - 3) NSNET was immediately known as the Internet.
  - 4) The World Wide Web is the only area of the Internet.

- 5) To access the Internet, you need a service provider to connect your computer to the Internet.
- 6) If you have a specific website address, you can type it to arrive at the page you want directly or use directories and search engines like Alta Vista, Yahoo!, or Infoseek to find information.

	Translate the following English units into Ukrainian:
1)	Leave a digital footprint
2)	Get caught in the web
3)	Virtual world
4)	Mixed emotions site
5)	Search network
6)	Virtual journey
7)	Webcams everywhere
8)	Get tangled in the web
5.	Give synonyms to the words in <u>bold</u> type.
1)	Make sure that you are making payments over the internet to a secure website
2)	We must <b>protect</b> ourselves from them
3)	Now, check out the winner's <b>username</b> .
4)	The <b>domain</b> that contains the user account.
5)	You can see how my Chrome <b>address bar</b> calls attention to the differences in y.
6.	Translate Ukrainian to English.
	• Пароль
	• Акаунт
	• Зайти на свій акаунт
	• Домашня сторінка
	<ul><li>Браузер</li></ul>
	• Вікно-
	• Згорнути
	<ul> <li>Вебсайт-</li> </ul>

	• Повернутись (н		
	• Повернутись (в	eneped)	
	• Вкладка-		
	<ul> <li>Kypcop</li></ul>		
		in English without using the given v	word itself.
	• www		
	-		
	<ul> <li>.edu-</li> </ul>		
	• .org		
	• .com		
	• .gov-		
	back wahsitas	forward scroll	homepage (2)
	back websites	forward scroll	homepage (2) tabs
	websites	scroll	tabs
bro	websites  1) I set my favorite webweer.	bsite as my browser's, so it ope	tabs ens every time I start my
	websites  1) I set my favorite webwser.  2) If you want to return	scroll	tabs ens every time I start my
	websites  1) I set my favorite we owser.  2) If you want to return owser.	bsite as my browser's, so it open to the previous page, just click the _	tabs ens every time I start my button on your
bro	websites  1) I set my favorite webweer. 2) If you want to return owser. 3) I like to keep multip	bsite as my browser's, so it ope	tabs ens every time I start my button on your
bro	websites  1) I set my favorite webweer. 2) If you want to return owser. 3) I like to keep multip	scroll bsite as my browser's, so it open to the previous page, just click theopen in my browser so I car	ens every time I start my button on your n easily switch between
bro	websites  1) I set my favorite webweer. 2) If you want to return owser. 3) I like to keep multipreferent. 4) After going back, you	bsite as my browser's, so it open to the previous page, just click the _	tabs  ens every time I start my button on your n easily switch between eking thebutton.
bro dif	websites  1) I set my favorite webweer. 2) If you want to return owser. 3) I like to keep multipreferent. 4) After going back, you	scroll bsite as my browser's, so it open to the previous page, just click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can be used to beopen in my browser so I can but can be used to beopen in my browser so I can but can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to be u	tabs  ens every time I start my button on your n easily switch between eking thebutton.
bro dif	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multipreferent 4) After going back, you so to view more contest of the screen.	scroll  bsite as my browser's, so it open to the previous page, just click the open in my browser so I can but can navigate forward again by clicent on the page, you can down	ens every time I start my button on your n easily switch between eking thebutton. using the scrollbar on
bro dif	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multip ferent 4) After going back, you so to you more contest of the screen.  9. Fill in the correct for the screen.	scroll bsite as my browser's, so it open to the previous page, just click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can navigate forward again by click theopen in my browser so I can but can be used to beopen in my browser so I can but can be used to beopen in my browser so I can but can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to beopen in my browser so I can be used to be u	ens every time I start my button on your n easily switch between eking thebutton. using the scrollbar on
bro dif the	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multipreferent. 4) After going back, you so to view more content of the screen.  9. Fill in the correct forms are possible.	scroll  bsite as my browser's, so it open in to the previous page, just click the open in my browser so I car ou can navigate forward again by clicent on the page, you can down form of the Future Tense. In some services as a scroll of the first order.	button on your n easily switch between eking thebutton. using the scrollbar on sentences, several
bro dif the	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multipreferent. 4) After going back, you so to view more content of the screen.  9. Fill in the correct forms are possible.	scroll  bsite as my browser's, so it open to the previous page, just click the open in my browser so I can but can navigate forward again by clicent on the page, you can down	button on your n easily switch between eking thebutton. using the scrollbar on sentences, several
brodif the for	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multip ferent 4) After going back, yo 5) To view more conte e right side of the screen.  9. Fill in the correct forms are possible.  By next month, the team	scroll  bsite as my browser's, so it open in to the previous page, just click the open in my browser so I car ou can navigate forward again by clicent on the page, you can down form of the Future Tense. In some services as a scroll of the first order.	button on yourbutton on your n easily switch between sking thebutton. using the scrollbar on sentences, several re migration.
brodiff the for 1.	websites  1) I set my favorite we owser. 2) If you want to return owser. 3) I like to keep multip ferent 4) After going back, you so to you more contest or right side of the screen.  9. Fill in the correct forms are possible.  By next month, the team I think the developers	scroll  bsite as my browser's, so it open to the previous page, just click the _ oleopen in my browser so I can out can navigate forward again by click the on the page, you can down to the Future Tense. In some some (complete) the softward again by click the page, you can down to the future Tense. In some some (complete) the softward again by click the future Tense.	button on your  n easily switch between  cking thebutton.  using the scrollbar on  sentences, several  re migration.  you arrive.

4.	She (update) the system automatically as soon as the new version is
	released.
5.	By the end of this year, the company (invest) heavily in cloud
	technologies.
6.	Tomorrow at this time, the server (handle) thousands of requests
	simultaneously.
7.	We (launch) the new application next week unless there are unexpected
	delays.
8.	By the time the meeting starts, he (prepare) the final presentation.
9.	They (not finish) debugging the code before the deadline if they don't
	work overtime.
10.	I (monitor) the network traffic continuously during the upgrade process.
11.	The IT department (install) the patches by the end of the day.
12.	When you call later, she (configure) the backup system.
13.	The new protocol (improve) network security significantly in the coming
	months.
14.	We hope that by next quarter, users (experience) fewer connectivity
	issues.
15.	The developers (collaborate) on the project remotely for the foreseeable
	future.
	10. Fill in the correct form of Gerund or Infinitive (with or without to).
	I enjoy (work) with new programming languages.
	She decided (upgrade) the system this weekend.
	They avoided (restart) the server during office hours.
4.	He promised (fix) the bug by tomorrow.
5.	We plan (migrate) the data to the cloud next month.
6.	The manager encouraged the team (learn) advanced security protocols.
7.	The system failed (connect) after the update.
8.	They suggested (test) the new feature extensively.

9. I admitted (m	ake) a mistake in the code.			
10. The technician postponed	(install) the update due to the outage.			
11.It's important	(document) every change properly.			
12.We started(d	levelop) the application last year.			
13. The IT department needs _	(train) new staff on the software.			
14.She enjoys(s	olve) complex debugging problems.			
15.They expect(	(receive) the new hardware next week.			
11. Rewrite the senten	ice in active voice.			
<ol> <li>The website will be upda</li> <li>The IT team</li> </ol>	ated by the IT team tomorrow.			
2. The links are going to be	e checked by the webmaster.			
<ul><li>→ The webmaster</li><li>3. The new design will be 1</li></ul>	aunched next month.			
<ul><li>→ The company</li><li>4. The bugs are going to be</li></ul>				
<ul><li>4. The bugs are going to be</li><li>→ The developers</li></ul>	e fixed by the developers.			
5. The SEO report will be p	prepared by the analyst.			
$\rightarrow$ The analyst				
6. The domain will be registered by the marketing team.				
<ul><li>→ The marketing team</li><li>The website is going to be monitored by the admin.</li></ul>				
$\rightarrow$ The admin				
8. The blog post will be written by the content creator.				
→ The content creator				
9. The user data will be seco  → The IT department				
10. The new features will be				
→ The QA team				
12. Convert the following	g sentences from passive voice to active voice.			
	to be designed by the graphic designer.			
<ul><li>2. → The graphic designer _</li><li>3. The emails will be answered</li></ul>	ed by the receptionist.			
$4. \rightarrow$ The receptionist				
	e updated by the IT specialist.			
<ul><li>6. → The IT specialist</li><li>7. The feedback will be revie</li></ul>	awed by the project manager			
8. → The project manager	wed by the project manager.			

9. The social media campaign is going to be managed by the marketing team.	
10. → The marketing team	
11. The customer complaints will be handled by the support staff.	
12. → The support staff	
13. The security protocols are going to be implemented by the IT team.	
14. $\rightarrow$ The IT team	
15. The new app features will be brainstormed by the development team.	
16. → The development team	
17. The training materials will be prepared by the HR department.	
18. → The HR department	
19. The event schedule is going to be finalized by the event planner.	
20. → The event planner	
13. Change the following active sentences into passive voice.	
1. The chef is preparing a special menu for the event.	
2. → A special menu for the event	
3. The mechanic is repairing the car's engine.	-
4. → The car's engine	
5. The librarian will organize the book collection tomorrow.	-
$6. \rightarrow$ The book collection	
7. The photographer captured stunning images of the sunset.	-
8. → Stunning images of the sunset	
9. The tour guide explained the history of the castle to the visitors.	_
10. $\rightarrow$ The history of the castle	
11. The team will develop a new strategy for the campaign.	_
12. $\rightarrow$ A new strategy for the campaign	
13. The students are discussing their project ideas with the teacher.	_
14. → Their project ideas	
15. The artist is creating a mural for the community center.	
16. → A mural for the community center	
17. The journalist will write an article about the local festival.	
18. → An article about the local festival	
19. The volunteers cleaned the park after the event ended.	
20. → The park	
14. Rewrite sentences using passive voice where appropriate.	
The gardener watered the flowers in the morning.	
2. → The flowers	
3. The CEO announced the new policy during the meeting.	
4. → The new policy	
5. The developers created a user-friendly interface for the app.	
6. A visor friendly interface for the app.	

7. The teacher gave the students a detailed explanation of the topic.	
8. → A detailed explanation of the topic	
9. The musician composed a beautiful melody for the song.	
10. → A beautiful melody for the song	
11. The technician installed the new software on the computer.	
12. $\rightarrow$ The new software	
13. The lawyer presented compelling arguments in the courtroom.	
14. → Compelling arguments	
15. The researcher discovered groundbreaking findings in the study.	
16. → Groundbreaking findings	
17. The nurse monitored the patient's condition throughout the night.	
18. → The patient's condition	
19. The architect designed an innovative building for the project.	
20. → An innovative building for the project	
15. Identify whether the sentences are active or passive voice and convert the	em
to the other form.	
The paintings were admired by the visitors in the art gallery.	
→	
The team is brainstorming ideas for the new marketing campaign.	
→	
The homework will be submitted by the students on time.	
→	
The author signed copies of the book after the reading session.	
The report was reviewed by the supervisor.	
The report was reviewed by the supervisor.	
→	
The children are playing games in the backyard.	
The new product has been tested by the QA team extensively.	
The presentation is being prepared for the conference by the speaker.	
The presentation is being prepared for the conference by the speaker.	
The cleaner sanitized all the surfaces in the office.	
The cleaner samuzed all the surfaces in the office.	
The whote amendous is additing the michanic from the weed ding	
The photographer is editing the pictures from the wedding.	
16. Combine active and passive sentences to make coherent paragraphs:	
The chef cooked a delicious meal for the guests.	
The chef cooked a deficious filear for the guests.	
The meal was served by the waiters in an elegant dining room.	
The mean was served by the wanters in an elegant unning room.	
The guests praised the chef for the exquisite flavors.	
•	
→	

The feedback was carefully noted by the restaurant manager.
→
The marketing team planned a promotion to highlight the restaurant's quality
→
The promotion was launched on social media platforms last week.
<b>→</b>
Potential customers inquired about reservations after seeing the campaign.
→
The inquiries were handled promptly by the receptionist.
→
The restaurant experienced a significant increase in bookings.
→
The success was celebrated by the entire staff at the end of the day.

# 16. Identifying Mistakes in Multimedia ConceptsBelow are sentences related to multimedia and its applications. Some of them contain errors or inaccuracies.

- 1. Multimedia refers only to the use of text and images to convey information.
- 2. Video games are an example of static media rather than multimedia.
- 3. Podcasts combine video and text to enhance user engagement.
- 4. Online learning platforms typically exclude multimedia features for simplicity.
- 5. Streaming platforms like Netflix primarily use graphics and animations to entertain users.
  - 6. Virtual reality experiences are less interactive than traditional teaching methods.
  - 7. Multimedia advertisements consist solely of text-based graphics.
  - 8. Individual learning preferences are rarely accommodated by multimedia content.
- 9. The integration of audio and video in multimedia reduces its accessibility for diverse audiences.
  - 10. Multimedia is limited to entertainment and has no role in business or education.
  - 11. Video games rarely incorporate dynamic soundtracks or interactive visuals.
- 12. Educational simulations provide less understanding of complex concepts compared to lectures.
- 13. Multimedia websites are less effective in showcasing products compared to textonly websites.
- 14. YouTube is an example of a multimedia platform that excludes user-generated content.
- 15. Combining various media forms in multimedia diminishes the quality of communication.

# 17. Write a step-by-step guide on how to create a simple website for a small business using a website builder. Word count: 160-200 words.

#### UNIT 7. Multimedia

#### TASKS:

#### 1. Read the text and briefly write its meaning.





New Media

## **Multimedia: Enhancing Communication Through Integration**

Multimedia refers to the integration of various forms of media, including text, audio, video, graphics, and animations, to convey information or entertain users. This blending of different mediums allows for a richer and more engaging experience than any single medium alone can provide. In today's digital age, multimedia has become ubiquitous, permeating every aspect of our lives, from entertainment and education to business and communication.

One of the key advantages of multimedia is its ability to cater to different learning styles and preferences. For example, some individuals may prefer to learn through visual aids like videos or diagrams, while others may prefer auditory learning through podcasts or audio lectures. By incorporating a diverse range of media, multimedia content can accommodate various learning needs, making it more accessible and effective for a broader audience.

In the realm of entertainment, multimedia has revolutionized how we consume and interact with content. Streaming platforms like Netflix and YouTube offer a vast library of multimedia content, including movies, TV shows, music videos, and usergenerated content. Video games have also evolved into immersive multimedia experiences, combining stunning visuals, dynamic soundtracks, and interactive gameplay to captivate players for hours on end.

In the field of education, multimedia has transformed traditional teaching methods, making learning more interactive and engaging. Educational videos, interactive simulations, and virtual reality experiences allow students to explore complex concepts in a hands-on manner, facilitating deeper understanding and retention of information. Online

learning platforms offer multimedia courses on a wide range of subjects, providing learners with the flexibility to study at their own pace and convenience.

In the business world, multimedia plays a crucial role in marketing and communication. Companies use multimedia presentations, websites, and social media platforms to showcase their products and services in a visually compelling manner. Multimedia advertisements, with their combination of audio, video, and graphics, have a greater impact on viewers and are more likely to be remembered than traditional text-based ads.

Furthermore, multimedia enables more effective communication and collaboration in the workplace. Video conferencing, webinars, and virtual meetings allow teams to connect and collaborate regardless of their physical location, fostering greater productivity and efficiency. Multimedia presentations and reports help convey complex ideas and data in a clear and concise manner, facilitating decision-making and problem-solving.

In conclusion, multimedia has become an integral part of our lives, shaping how we communicate, learn, entertain ourselves, and do business. Its ability to combine various forms of media into cohesive and interactive experiences makes it a powerful tool for engaging audiences and conveying information effectively. As technology continues to advance, the possibilities for multimedia innovation are endless, promising even more immersive and engaging experiences in the future.

2. Answer these questions.

# 1) How has multimedia transformed traditional teaching methods in education? 2) What role does multimedia play in marketing and communication for businesses? 3) Can you provide examples of how multimedia is used in entertainment today? 4) How does multimedia accommodate different learning styles and preferences? 5) In what ways has technology advanced to enhance multimedia experiences in recent years?

#### 3. The sentence is True or False.

- 1) Multimedia combines various forms of media, including text, audio, video, graphics, and animations, to convey information or entertain users.
  - 2) Multimedia content caters to a narrow range of learning styles and preferences.
  - 3) Video games have remained static in their evolution as multimedia experiences.
- 4) Multimedia has had a limited impact on traditional teaching methods in education.
- 5) Multimedia advertisements, with their combination of audio, video, and graphics, are less likely to be remembered than traditional text-based ads.

	4. Translate the following English units into Ukrainian:
	1) Dive into the Multimedia World
	2) Multimedia Melting Pot-
	3) Multimedia Experience-
	4) Multimedia Odyssey
	5) Multimedia Masterpiece
	5. Give synonyms to the words in <u>bold</u> type.
	1) On the left are two <b>progressive</b> scan images.
	2) The mosaic figures traced the <b>interlacing</b> of cultures
defi	3) The MPEG-21 standard, from the <b>Moving Picture Experts Group</b> , aims at ining an open framework for multimedia applications.
	4) These are the top eight <b>office suites</b> for doing so.
offe	5) DAM systems are especially suited to managing multimedia content and tend to er hooks into specialized desktop media <b>authoring systems</b> .
	6. Translate Ukrainian to English:
	• Композитне відео
	<ul> <li>Фокусне світло</li></ul>
	• Bideo
	• Відеозапис

• Текстовий процесор		
• Растрові зображення		
• Цифровий багатофункціональний	й диск	
7. Explain this word in English without	using the given word itself.	
• charged-coupled device		
• TIFF		
• FAQ(frequency asked questions)		
8. Fill in the blanks with the necessary	words in the box.	
digital versatile disc	bitmap images	
office suites	focal light	
1), while often large in file siz visuals for graphic design and photography process of tools for productivity, including word procespresentation creation.  3) The revolutionized home entermovies and multimedia content.  4) The in the photograph highligattention to the central point of interest in the interest	ojects.  In the specific of th	set
9. Add the correct tag question.		
<ol> <li>She is editing the video,?</li> <li>They didn't upload the audio file,</li> <li>You will finish the project on time,</li> <li>He was recording when I arrived,</li> <li>We haven't installed the software yet,</li> <li>The camera supports HD,?</li> <li>You didn't use the new microphone,</li> <li>She has exported the file,?</li> <li>They will stream the event,</li> <li>He doesn't work with animation,</li> </ol>	?	

# 10. Fill in the blanks with the correct multimedia word: (edit / stream / record / export / upload / download / animate / capture / subscribe / broadcast)

١.	What software do you use to		videos?
2.	Are you going to		the concert live tonight?
3.	How long does it take	to	a podcast episode?
1.	Where can I	the	latest software update?
5.	Did you	the new	footage yesterday?
5.	She plans to	the	animated intro next week.
7.	I want to	the scr	een during the webinar.
3.	Have you	_ the vi	deo to the cloud yet?
€.	How many people		your channel?
10	.The company will		_ the event worldwide.

## 11. Make questions for each sentence (Yes/No or Wh-)

- 1. She edits videos daily.
- 2. They streamed the festival last summer.
- 3. He is recording a new podcast now.
- 4. The editor added subtitles yesterday.
- 5. They will broadcast the show live.
- 6. The animator created new graphics last week.
- 7. You have subscribed to the channel.
- 8. She exported the project this morning.
- 9. The camera captures 4K video.
- 10. They downloaded the latest software update.

#### 12. Correct the mistakes in these questions.

- 1. What software you use for editing?
- 2. Did they streamed the video yesterday?
- 3. Are you recording the podcast right now?
- 4. When the event will be broadcast?
- 5. Has she uploaded the files yet?
- 6. Why you didn't add subtitles?
- 7. Who is working on the animation?

- 8. Do you know where download the audio?
- 9. Is they going to stream the event?
  - 10. How long export the video takes?

# 13. Make questions for the answers using different question types

1. Answer: "I am recording a new video now."	
$\rightarrow$	?
2. Answer: "They edited the documentary last week."	
$\rightarrow$	?
3. Answer: "Yes, I subscribed to the channel yesterday."	_
$\rightarrow$	?
4. Answer: "The microphone is not working."	_
$\rightarrow$	?
5. Answer: "The software will update automatically."	_
$\rightarrow$	?
6. Answer: "No, the event was not streamed live."	
$\rightarrow$	?
7. Answer: "The camera captures videos in 4K."	_
$\rightarrow$	?
8. Answer: "She added subtitles yesterday."	_
$\rightarrow$	?
9. Answer: "They will upload the files tomorrow."	_
→ ·	?
10. Answer: "I prefer Adobe Premiere to Final Cut Pro."	_
$\rightarrow$	?

# 14. Complete the sentences with the correct form of the verb.

1. They	(install) th	e software last week.
2. She	(set up) the	new server.
3. The IT team	(fir	nish) configuring the firewall.
4. I	_ (not update) th	e antivirus program yet.
5. He	(design) the	user interface yesterday.
6. We	(already test	t) the backup system.
7	you	_ (check) the network settings?
8. They	(not fix) th	e bug in the application last night.
9. I	(recently learn	) how to encrypt sensitive data.
10. She	(enable) tv	vo-factor authentication this morning.
11	_ the manager _	(approve) the new protocol?
12. The develop	oers	(not complete) the coding yet.
13. They	(release)	the patch last Friday.
14. We	(just disco	ver) a security loophole.

15. He	(mat magmand)	to the IT	im arriws reat
13. ne	(not respond)	) to the 11	inquiry yet.

## 15. Find and correct the grammatical mistakes in the following sentences.

- 1. The email have been send by mistake.
- 2. They doesn't update the software regularly.
- 3. She have installed the new antivirus program.
- 4. I was forgetting to save my work yesterday.
- 5. The server has crashing due to high traffic.
- 6. We hasn't received any notifications about the issue.
- 7. He update the system every two weeks.
- 8. The file were encrypted incorrectly.
- 9. They didn't fixed the bug in the last update.
- 10. She haven't checked the security settings yet.
- 11. The IT team have resolve the connectivity problem.
- 12. I didn't finishing the data migration on time.
- 13. He hasn't enabling multi-factor authentication.
- 14. They were complete the installation successfully.
- 15. The codes weren't been debugged properly.

#### 16. Write questions for the given answers using the grammar from this unit.

1. Answer: "Yes, I verified the system logs yesterday." →
?
2. Answer: "The patch has already been installed." $\rightarrow$
?
3. Answer: "No, the account was not hacked." →
?
4. Answer: "They downloaded the software last night." →
?
5. Answer: "Yes, the backup is stored on a secure server." →
?
6. Answer: "The firewall has been activated." →
?
7. Answer: "She didn't configure the VPN settings." $\rightarrow$
?
8. Answer: "They are testing the encryption algorithm now." $\rightarrow$
?
9. Answer: "The IT manager reviewed the report yesterday." →
?
10. Answer: "No, I haven't updated the password yet." →
?
11. Answer: "Yes, the system upgrade will start tomorrow." →
?

12. Answer: "The device was disconnected from the net	work." $\rightarrow$
	_?
13. Answer: "I prefer using secured cloud storage." →	
	_?
14. Answer: "The software installation completed succe	ssfully." $\rightarrow$
	_?
15. Answer: "Yes, the security policy has been revised."	$\rightarrow$
	_?

# 17. Write a short proposal for a multimedia presentation advertising a new IT product. Mention what media you would use and why. Word count: 150–180 words.

#### UNIT 8. Cybersecurity

#### TASKS:

## 1. Read the text and briefly write its meaning.



## Microsoft Revamps Controversial AI-Powered Recall Feature Amid Privacy Concerns

Microsoft recently announced that its controversial AI feature, Recall, will no longer be enabled by default and will instead be opt-in. Recall, which is scheduled to debut on Copilot+ PCs starting June 18, 2024, captures screenshots from users' screens every five seconds to create a searchable timeline of on-screen activity. The idea behind it is to act as a digital memory aid powered by artificial intelligence.

However, the feature quickly drew sharp criticism from privacy and cybersecurity experts. Concerns were raised that Recall could store sensitive content like private messages or confidential documents – even those meant to disappear – without proper protections in place. Critics argued the feature could easily be exploited by malicious actors, calling Microsoft's initial rollout careless and poorly secured.

Media outlets like WIRED referred to Recall as essentially built-in spyware, and reports emerged that Microsoft kept the feature under wraps during development, avoiding public testing. In response to the backlash, Microsoft stressed that users would have full control over the feature and launched it in preview mode to collect user feedback.

The company has since introduced several major changes. Now, enabling Recall will require user consent during setup, and biometric authentication via Windows Hello must be activated to use or view the Recall timeline. Additionally, the data is encrypted and can only be decrypted with user authentication, thanks to what Microsoft calls "just-in-time" decryption protected by enhanced sign-in security.

Microsoft also emphasized that Recall data stays on the user's device and isn't shared externally. Users will have the option to pause, filter, or delete captured data at any time. In work environments, IT administrators can block Recall from being used, but cannot activate it themselves – it remains the user's decision.

Security researcher Kevin Beaumont, one of the earliest and most vocal critics, acknowledged Microsoft's revisions as a step in the right direction but warned that issues might still arise depending on the implementation. He and others highlighted the importance of giving users the choice to opt in, rather than having the feature automatically enabled.

This shift by Microsoft aligns with its broader push to prioritize security, especially in light of recent attacks linked to foreign state actors. CEO Satya Nadella recently reminded employees that when faced with competing priorities, security must always come first – even if that means delaying new features or phasing out older systems.

#### 2. Answer these questions.

wha

ch	anges are being made to it?
2)	When is the Recall feature set to be available, and on what type of PCs?
3)	What purpose does Recall serve, and how does it function?
4)	Why did Recall receive criticism from the security and privacy community?

regarding Recall?	
6) How do IT administrators within Recall, and what choice is emphasized f	n enterprise environments have control over for users?
7) What prompted Microsoft's prio Satya Nadella in a recent memo to empl	ritization of security, as mentioned by CEO oyees?
3. The sentence is True or False.  1) Microsoft is revamping the Reca	all feature amid privacy concerns, making it an
opt-in feature instead of enabled by defa	
	ble exclusively on Copilot+ PCs starting June
18, 2024.	
	sers' screens every five seconds to create an
"explorable visual timeline."	
	ng overly transparent about the development of
the Recall feature and its security measure.	er the Recall feature, including the ability to opt
out entirely from periodically saving sci	
	nvironments have the control to enable or disable
the Recall feature themselves.	
4. Translate the following English	units into Ukrainian
1) E ( CE: 11	i umes into excaman.
2) Lock and Key Encryption-	
	l Realm-
5) Shield of Security	
4) Digital Minefield	bold type. nands-on experience with Software

2) <b>Telnet</b> does not support a	2) <b>Telnet</b> does not support applications that require a graphical user interface.			
3) It has <b>distributed</b> agricul	tural tools and seeds to	help rebuild the country.		
4) This provides a near real-	time <b>audit trail</b> of infor	mation being exchanged.		
5) Unlike a simple static pas required for every transaction.	5) Unlike a simple static password, a completely different <b>Digital Signature</b> is uired for every transaction.			
6. Translate Ukrainian to I	ня			
<ul> <li>Ключові слова</li> </ul>				
<ul><li>Аналіз ризиків</li></ul>				
<ul><li>Шпигунське програм</li><li>Мобільний код</li></ul>	не заоезпечення			
• Цілісність даних				
7. Explain this word in En				
• SMTP Session Hijack	ing			
8. Fill in the blanks with the	ne necessary words in t	he box.		
Mobile Code (2)	Spyware	Keywords		
Backing up	Firewall	System Integrity		
may indicate attempts to download	ad spyware or malicious threat to, as it can dge, making it essential	n execute malicious actions on a		

3) Implementing a robust firewall is crucial for protecting against unauthorized access and preventing the infiltration of and malicious mobile code.  4) To maintain system integrity, it's essential to regularly update antivirus software to guard against threats like spyware and  5) Spyware can exploit vulnerabilities in a system, bypassing defenses and compromising system integrity by secretly collecting sensitive information.  6) Regularly your data is an essential part of maintaining system integrity and protecting against data loss due to cyberattacks or system failures
9. Combine sentences with coordinating conjunctions (and, but, or, so, yet)
Combine the two sentences into one compound sentence.  1. The company updated the firewall. The hacker tried to break in.   2. The IT team detected a virus. They didn't find the source immediately.   3. The user changed the password. He forgot to save it.  4. The system was hacked. The backup saved all data.
→
<ul> <li>→</li></ul>
7. The user clicked on a suspicious link. The computer got infected.
8. The company invested in security software. The hackers kept trying to access the system.
9. The administrator changed the firewall settings. The server crashed.
10. The user installed an update. The software worked better.
10. Combine sentences with subordinating conjunctions (because, although, since, unless, when, after, before, if, while).
Combine the sentences into one complex sentence.
1. The system was slow. The antivirus was running a full scan. →
2. The user changed the password. The account was still hacked.  →

3. The firewall blocked the attack. The network was still vulnerable.

→

4. The technician updated the software. The virus infected the computer.

→

5. The user didn't click the link. The computer got a virus.

→

6. The administrator installed patches. The system remained unprotected.

→

7. The company delayed the update. The data was stolen.

→

8. The hackers tried to break in. The security system detected them.

→

9. The IT team monitored the network. The breach happened anyway.

→

10. The user backed up data. The hard drive crashed.

## 11. Identify if the sentence is complex or compound

Write C for complex sentence or Co for compound sentence.

- 1. The antivirus scanned the system, but it missed the malware.
- 2. Although the firewall was updated, the system was hacked.
- 3. The user reset the password, and the account was secured.
- 4. The hacker tried to access the network, yet the data remained safe.
- 5. Since the security protocols were weak, the breach occurred.
- 6. The IT department upgraded the software, but the virus returned.
- 7. The user clicked on a phishing email, so the system was infected.
- 8. If the company installs updates regularly, the risk is lower.
- 9. The technician fixed the bug, and the system worked properly.
- 10. While the backup was running, the server crashed.

## 12. Rewrite using active voice (from passive)

1.	The	system was protected by the cybersecurity team.
	$\rightarrow$	
2.	The	password was changed by the user.
	$\rightarrow$	•
3.	The	malware was detected by the antivirus software.

firewall rules were updated by the administrator.
data was encrypted by the security expert.
backup was completed by the technician.
breach was prevented by the security system.
phishing email was reported by the employee.
virus was removed by the antivirus program.
e suspicious activity was logged by the monitoring tool.
3. Combine with coordinating and subordinating conjunctions
ne the sentences using both coordinating and subordinating conjunctions.
he security software was updated. The attack continued. The firewall blocked spicious IP.
he user ignored the warning. The system was infected. The technician fixed the m.
he hackers tried to breach the system. The administrator monitored the network. tta remained safe.
he backup failed. The hard drive crashed. The IT team restored the files.
3 11 11 11

## e errors in the sentences.

- 1. Although the firewall was strong, the hacker still managed to broke in.
- 2. The antivirus scans the system, but it miss some malware.
- 3. The user changed the password but forgot to save it, so the account was compromised.
- 4. Since the update was installed the system is now secure.
- 5. The hacker tried to access the network, yet they was detected.
- 6. The technician fixed the bug but the system didn't restarted.
- 7. Because the security protocols were weak, the breach happened.
- 8. The company invested in software and yet the attacks continued.

- 9. If the user don't update the software, the system becomes vulnerable.
- 10. The backup was running while the server crashed.

#### 15. Rewrite the sentences by correcting the grammatical errors.

- a. The programmer debug the code but didn't fix all the issues.
- b. The software engineer design the app, yet it wasn't functional.
- c. Although the application launched successfully, the user interface was confusing.
- d. The project manager coordinate the team, but the deadline was missed.
- e. Since the framework was outdated, the performance slowed down.
- f. The developer wrote the algorithm, yet it failed to process the data correctly.
- g. The testers identify the bugs but didn't report them.
- h. Because the client's requirements were unclear, the product didn't meet expectations.
- i. The team deployed the software while the system crashed.
- j. If the instructions isn't followed carefully, the installation fails.

# 16. Write sentences using appropriate grammar to describe software development scenarios.

- a. The programmer optimized the code, so the application runs faster.
- b. While the server was being updated, the website went down temporarily.
- c. Agile teams prioritize collaboration and flexibility to improve efficiency.
- d. The designer added new features to the interface before it was tested.
- e. Because the algorithm was poorly written, the calculations were incorrect.
- f. The developers worked overtime, yet the application wasn't ready for launch.
- g. Debugging tools help identify errors but don't always solve them.
- h. Since the sprint ended, the team started planning the next cycle.
- i. The client gave feedback, which helped improve the final product.
- j. If a programming language isn't compatible, the software may not function properly.
- k. Testing ensures that applications meet quality standards before deployment.
- 1. The framework was updated while the users were still online.
- m. The system crashed because the hardware wasn't compatible with the software.
- n. While the application was loading, the device overheated.
- o. The product launch was delayed, yet the marketing campaign continued.

# 17. Write a newsletter article for your company about 3 essential cybersecurity tips every employee should follow. Word count: 150–200 words.

## UNIT 9. Programming and software development

#### TASKS:

#### 1. Read the text and briefly write its meaning.



Programming and software development have become integral components of modern technology, shaping the digital landscape and driving innovation across various industries. At its core, programming involves writing instructions in a specific programming language to create software applications that perform various tasks and solve problems.

Software development encompasses the entire process of designing, coding, testing, and maintaining software applications. It involves a collaborative effort between programmers, software engineers, designers, and other stakeholders to bring ideas to life and deliver functional and user-friendly products.

The field of programming is vast and diverse, with a wide range of programming languages, frameworks, and tools available to developers. Each programming language has its strengths and weaknesses, and the choice of language often depends on factors such as project requirements, performance considerations, and personal preferences.

One of the fundamental skills in programming is algorithmic thinking, which involves breaking down complex problems into smaller, more manageable tasks and devising efficient algorithms to solve them. Algorithms form the backbone of software applications, determining how data is processed, manipulated, and transformed to achieve desired outcomes.

In addition to writing code, software developers also need to be proficient in debugging and troubleshooting to identify and fix errors and issues in their code. Testing is another critical aspect of software development, ensuring that applications function as intended and meet quality standards before being deployed to end-users.

Agile methodologies have gained popularity in recent years as a flexible and iterative approach to software development, emphasizing collaboration, adaptability, and customer feedback. Agile teams work in short development cycles called sprints, continuously

delivering working software and incorporating changes based on feedback from stakeholders.

The rise of DevOps practices has further transformed software development, blurring the lines between development and operations teams and promoting automation, collaboration, and continuous integration and deployment. DevOps aims to streamline the software delivery process, reduce time to market, and improve overall software quality and reliability.

Software development extends beyond traditional desktop applications to encompass web development, mobile app development, cloud computing, artificial intelligence, and more. As technology continues to evolve, software developers play a crucial role in driving innovation and shaping the future of digital transformation.

In conclusion, programming and software development are dynamic and everevolving fields that empower individuals and organizations to create innovative solutions to complex problems. With a combination of technical skills, creativity, and problemsolving abilities, software developers are at the forefront of technological innovation, driving progress and shaping the digital world we live in.

## 2. Answer these questions.

2) W/l4 6 d
2) What are some fundamental skills required in programming, and how do they ort the development of software applications?
3) How has the rise of DevOps practices transformed the software delivery procewhat benefits do they offer to development teams and organizations?
4) What role do agile methodologies play in modern software development, and do they differ from traditional approaches?
5) In what ways has software development evolved beyond traditional desktop

#### 3. The sentence is True or False.

1) Coding Cornerstone-

- 1) Programming and software development are essential components of modern technology, driving innovation across various industries.
- 2) Software development involves a collaborative effort between programmers, software engineers, designers, and stakeholders to create functional and user-friendly products.
- 3) Each programming language has its strengths and weaknesses, and the choice of language depends on factors such as project requirements and personal preferences.
- 4) Agile methodologies emphasize long development cycles and discourage continuous feedback and adaptation.
- 5) DevOps practices aim to streamline the software delivery process and improve overall software quality and reliability.
- 6) Software development is limited to traditional desktop applications and does not extend to web development, mobile app development, cloud computing, and artificial intelligence.

#### 4. Translate the following English units into Ukrainian.

2) <i>Deb</i>	ougging Detective
3) Agil	le Arena
4) <i>Dev</i>	Ops Dance
5) Inno	ovation Highway
6) <i>Coa</i>	le Crafting
5. Give	e synonyms to the words in <u>bold</u> type.
1) Shu	tdown, restart, and log out of your computer.
2) <b>Aut</b> imately,	<b>chorization</b> refers to the process of granting privileges to processes and, users.
3) Thu	as, the ME <b>Token</b> becomes a real currency unit in its virtual form.
4) My	research <b>grant</b> depends on it.
5) An	example of this is the Search <b>Function</b> .
,	

6. Translate Ukrainian to English.	
<ul><li>Логін -</li></ul>	
• Ключ авторизації-	
• Користувач	
• Проміжне ПЗ	
<ul><li>Контролер</li></ul>	
<ul> <li>Переглянути</li> </ul>	
• Невідстежуваний	
7. Explain this word in English without	using the given word itself.
• Hash	
• Reboke	
• Staged	
9. Fill in the blanks with the necessary w	
grant	login
-	login
grant authorization  1) Once the grant of is approved, the enter their credentials.	login user  the user can proceed to the login page and
grant authorization  1) Once the grant of is approved, to	login user  the user can proceed to the login page and
grant authorization  1) Once the grant of is approved, the enter their credentials.  2) It's essential for administrators to more	login user  the user can proceed to the login page and nitor activity and revoke grants of
grant authorization  1) Once the grant of is approved, the enter their credentials.  2) It's essential for administrators to more authorization if necessary to maintain security.  3) To access the system, the user must first administrator.	login user  the user can proceed to the login page and anitor activity and revoke grants of at request a of authorization from the
grant authorization  1) Once the grant of is approved, the enter their credentials.  2) It's essential for administrators to more authorization if necessary to maintain security.  3) To access the system, the user must first	login user  the user can proceed to the login page and anitor activity and revoke grants of at request a of authorization from the
grant authorization  1) Once the grant of is approved, to enter their credentials.  2) It's essential for administrators to more authorization if necessary to maintain security.  3) To access the system, the user must first administrator.  4) After successful, the user will be	login user  the user can proceed to the login page and nitor activity and revoke grants of at request a of authorization from the granted access to their account and can

The weather was bad. We stayed home. (since) She didn't feel well. She didn't go to school. (because) The food was delicious. We ate a lot. (because)

# 10. Combine sentences with subordinating conjunctions (because, although, since, unless, when, after, before, if, while)

Make complex sentences by combining the two sentences.

1.	The program crashed. The developer didn't test it properly.
$\rightarrow$	
2.	The update was delayed. The team fixed all bugs.
$\rightarrow$	•
3.	The code was optimized. The system still ran slowly.
$\rightarrow$	•
4.	The tester found an error. The developer hadn't reviewed the code.
$\rightarrow$	·
5.	The user reported a bug. The software was updated immediately.
$\rightarrow$	
6.	The developer committed the code. The build failed.
$\rightarrow$	·
7.	The manager approved the project. The deadline was tight.
$\rightarrow$	
8.	The software crashed. The team was debugging the system.
$\rightarrow$	
9.	The app worked well. The server was down.
$\rightarrow$	**
$10^{-}$	. The developer wrote tests. The code was more reliable.
$\rightarrow$	*
_	

## 11. Write 10 sentences about software development projects.

## Use a variety of:

- Compound and complex sentences
- Future tenses
- Gerunds and infinitives
- Active voice

# 12. Combine the following sentence pairs using appropriate conjunctions or relative pronouns.

- ❖ The team was testing the app. They discovered a critical bug.
- The project was delayed. The client requested additional features.
- ❖ The documentation was incomplete. The developers struggled to understand the API.

- \* The company invested in new servers. They wanted to improve performance.
- ❖ The code was refactored. It became easier to maintain.

# 13. Write 10 sentences about the benefits and challenges of cloud computing using gerunds and infinitives.

- \* To lower costs, many businesses are moving to the cloud.
- ❖ Managing data securely in the cloud requires careful planning.
- ❖ Using a cloud platform helps in scaling operations efficiently.
- Developers often try to avoid delaying project timelines.
- \* To integrate cloud-based solutions, training staff becomes essential.

#### 14. Write compound and complex sentences about software development.

- ❖ The team worked late, yet they couldn't meet the deadline.
- ❖ Although the app was deployed, some features required further testing.
- ❖ The developer fixed the bug, but the issue reappeared during user testing.
- The software was well-designed because the developers followed best practices.
- ❖ If the servers had been upgraded, the application would have run faster.

# 15. Write 15 sentences that compare traditional IT infrastructure with cloud computing.

- Cloud computing is more flexible than traditional infrastructure.
- Setting up a traditional server takes longer than configuring a cloud-based one.
- While traditional systems require upfront investment, cloud services operate on a payas-you-go model.
- Cloud storage is more scalable than on-premises solutions.
- ❖ Maintaining traditional IT systems is more resource-intensive than using cloud platforms.
- Cloud providers offer better disaster recovery options than local servers.

# 16. Identify mistakes or inconsistencies in the following text and suggest corrections.

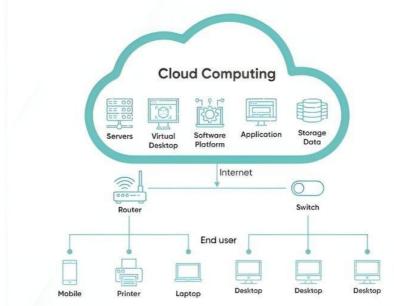
- ❖ The software was launched last year, but some users report occasional crashes when handling large datasets.
- Our company's guidelines state that all code should be peer-reviewed, but some recent commits have bypassed this process.
- During deployment, a configuration file was accidentally omitted, which caused downtime for several hours.

# 17. Write an onboarding note for a junior developer that explains the main stages of software development in a team. Word count: 180–220 words.

# UNIT 10. Cloud technologies and computing

### TASKS:

# 1. Read the text and briefly write its meaning.



Cloud technologies are rapidly expanding, drawing interest from both major corporations and smaller enterprises. This model of computing allows users to access applications, data, and other resources online, using any internet-connected device.

The outlook for the cloud market is highly positive. Gartner Inc. predicted that global spending on public cloud services would rise by 20.7% in 2023, reaching \$591.8 billion – up from \$490.3 billion in 2022. This growth surpasses the previous year's projection of 18.8%. The main drivers behind this surge include the growing number of businesses turning to the cloud to streamline operations, store data more efficiently, and lower IT infrastructure expenses. Innovations such as quantum computing and machine learning are also expected to contribute to further market expansion.

A key benefit of cloud computing is its adaptability. Organizations can quickly adjust their resource use based on current demands without investing in new hardware or additional staff. It also enhances productivity by automating routine processes and significantly cuts IT-related costs.

A notable example is Airbnb, which relies on Amazon Web Services to manage and scale its infrastructure effectively. This has enabled the company to handle large volumes of data and maintain service quality as it grows.

Numerous global companies have successfully integrated cloud solutions into their operations:

Coca-Cola uses cloud services to accelerate product launches and improve business efficiency.

BMW employs the cloud to innovate and test new features while boosting vehicle performance and safety.

Adobe relies on cloud storage and computing power to handle vast data sets for software development.

GE Healthcare has developed digital data platforms that assist healthcare professionals in enhancing treatment outcomes.

UPS leverages cloud tools to streamline logistics and improve cargo tracking systems.

One of the most striking recent success stories is ChatGPT, which became the fastest-growing IT product ever. By January 2023, just two months after its release, it had already surpassed 100 million monthly users. Its rapid rise was made possible in large part through the use of cloud technologies.

2. Answer these questions.

	1) What is cloud computing, and how does it provide computing resources to users'
publ	2) According to Gartner Inc., what is the projected growth of global spending on ic cloud services in 2023, and what factors contribute to this growth?
do tl	3) What are some advantages of cloud technologies mentioned in the text, and how ney benefit companies?
tech	4) Can you provide an example of a successful company that utilizes cloud nologies, and how has it benefited from them?
and	5) How do major global brands such as Coca-Cola, BMW, Adobe, GE Healthcare, UPS use cloud technologies in their business operations, according to the text?

#### 3. The sentence is True or False.

Cloud Nine Efficiency-\_\_
 Silver Lining Solutions-

4) Data Drizzle-5) Sky-High Scalability-

- 1) The cloud technology market is growing rapidly and attracting the attention of both large corporations and small businesses.
- 2) Cloud computing is a model for providing computing resources that are only available through physical servers.
- 3) Estimates suggest that global spending on public cloud services will decrease in 2023 compared to 2022.
- 4) One reason for the growth of the cloud technology market is the decreasing number of consumers who use cloud technologies for work and data storage.
- 5) Cloud technologies provide flexibility to companies by allowing them to easily scale their computing resources without purchasing new hardware.
- 6) All major global brands mentioned in the text use cloud technologies primarily for marketing purposes.

3) Navigating the Cloudscape-

6) Cloud Cover Collaboration-

# 4. Translate the following English units into Ukrainian.

5. Give synonyms to the words in <u>bold</u> type.  1) On-demand self-service, when a consumer without interaction with a service provider can determine and change parameters such as access speed, processing time, amount of stored data, etc.
2) Bond banks and <b>resource pooling</b> can be useful instruments for reducing risk.
3) A cloud computing model can be composed of various characteristics such as on- demand self-service, broad network access, resource pooling, <b>rapid elasticity</b> , measured service, and so forth.

access their data and applications across a wide range of clients.

4) VMware View VDI (Virtual Desktop Infrastructure) software allows users to

	oud models, <b>private clouds</b> will prozed environment using an underlyin	
6. Translate Ukra	inian to English:	
• Широкий	доступ до мережі	
• Розмірне о	бслугування-	
• Резервне к	опіювання в хмарному сховищі-	
• Хмарна мо	одель: спільнота	
• Хмарний л	вережевий контролер	
7. Explain this word in English without using the given word itself.  Infrastructure as a Service (IaaS)  Platform as a service (PaaS)  Software as a Service (SaaS)		
• Platform as a service	e (PaaS)	
Software as a Service	re (SaaS)	
	ss with the necessary words below	
IaaS	PaaS	SaaS
server. 2) What is	me streaming services, currently pic like: the actual game being and who primarily uses it?	played runs on a remote
server. 2) What is 3) The second is		played runs on a remote
server.  2) What is 3) The second is cloud-based application	like: the actual game being and who primarily uses it? which lets a company delive	played runs on a remote r everything from simple e applications.

7 D 1		
/. Developers _	test applications in the cloud environment.	
8. Clients	access the service 24/7.	
9. You	connect to public Wi-Fi when transferring sensitive data.	
10. Admins	monitor all cloud activity for security purposes.	
10. Rewrite	e sentences using modal verbs of prohibition or permission	
	orbidden to download unapproved software on cloud so	ervers.
→ You	download unapproved software on cloud servers.	
2. Users a	are allowed to store documents in the shared	folder.
→ Users	store documents in the shared folder.  any does not allow employees to access client data without authorize	
3. The compa	any does not allow employees to access client data without authorize	zation.
→ Employees	s access client data without authorization.	
	necessary to encrypt all sensitive data before uplo	ading.
→ You	encrypt all sensitive data before uploading.	
5. Using i	unsecured devices is not permitted on the net	twork.
→ Y ou	use unsecured devices on the network.	1
	dministrator allows backups during off-peak	nours.
→ Backups _	be done during off-peak hours.  must not share their passwords with an	****
/. Users	share your passwords with anyone.	iyone.
→ 10u	the cloud platform is granted after completing security tra	inina
o. Access to  → Vou	access the cloud platform after completing security training	unnig.
9 The sy	ystem may experience downtime during mainten	,. nance
→ The system	n experience downtime during maintenance.	nance.
10 Unauthori	ized users are not allowed to modify system se	ttinos
→ Unauthoriz	zed users modify system settings.	ttings.
	the blanks with the correct modal verb expressing allowance or	•
restriction		
1. Employees	access the cloud only during work hours.	
2. You	share your login credentials with others.	
3. The system	notify users of security breaches.	
4. Users	notify users of security breaches. install software without admin approval.	
5. The cloud pla	latform handle thousands of simultaneous connections	<b>3.</b>
6. Visitors	enter the secure server room.	
7. You	backup files regularly to avoid data loss.	
8. Unauthorized	d users access confidential information.	
9. Admins	reset passwords for locked accounts.	
10. Users	disable antivirus software on company devices.	

# 12. Rewrite sentences, replacing the underlined part with a modal verb phrase

	ry for users to get permission before downloading files.
→ Users	download files.
<ol><li>It is forbidde</li></ol>	en to share your password with others.
→ You	share your password. for admins to view activity logs.
→ Admins	view activity logs.
	mitted to use personal devices on the network.
	use personal devices on the network.
	e that the system will be unavailable during maintenance.
$\rightarrow$ The system	be unavailable during maintenance.
6. It is mandate	ory to encrypt sensitive files.
→ You	encrypt sensitive files. ohibited from installing unauthorized software.
7. Users are pro	ohibited from installing unauthorized software.
→ Users	install unauthorized software.
	y permits employees to work remotely.
→ Employees	work remotely.
	necessary to update passwords regularly.
→ You	update passwords regularly.
10. It is not poss	sible to access the server without credentials.
→ You	access the server without credentials.
13. Complete	e the sentences using modal verbs + verbs in brackets
1. You	(be) responsible for your account security.
2. Users	(not share) their passwords with others.
3. The IT team	(monitor) all cloud activity.
4. Employees	(use) strong passwords.
5. You	(use) strong passwords (not access) restricted areas without permission.
6. Developers	(test) all code before deployment. (contact) support if they have issues.
7. Clients	(contact) support if they have issues.
8. You	(backup) data regularly to avoid loss.
<ol><li>Unauthorize</li></ol>	d users (enter) the server room.
10. The system	(send) alerts about suspicious logins.
14. Fill in the	e blanks with the correct form of the verbs in parentheses.
1 Ца	_ (finish) the report before the deadline.
1. He 2. They	(not attend) the meeting yesterday.
2. The manager	(annrove) the proposal if it meets the requirements
J. The manager _	(approve) the proposal if it meets the requirements (wait) for your reply since last Monday.
5. The application	(wait) for your repry since last Monday.  1 (not work) properly after the update.
5. The application 6. Von	(follow) the guidelines to avoid errors.
7. The team	(complete) the project by the end of next month.
, . I III walli	(complete) the project by the cha of next mollin.

8. The system	(not accept) passwords that are too short.
9. Customers	(provide) accurate information during registration.
10. The developer	(present) the new features at the meeting tomorrow.

## 15.Identify and correct the mistakes in the following sentences.

- 1. The files was uploaded successfully.
- 2. She don't have access to the database.
- 3. Passwords must to be changed regularly.
- 4. The IT team is monitoring all activities for ensure security.
- 5. Employees have to follows the security policies.
- 6. The server was restarted because it was running slow.
- 7. Developers tests the code before deployment.
- 8. Users not should share their login details.
- 9. Backup data is essential for preventing data losses.
- 10. The system sends an alert if it detects a suspiciously login attempt.

## 16. Rewrite the following sentences in the passive voice.

- 1. The IT team monitors all cloud activity.
- 2. Users should back up their data regularly.
- 3. Developers will test the code before deployment.
- 4. The manager approved the security policy.
- 5. They have completed the project successfully.
- 6. The system sends alerts about login issues.
- 7. The team is reviewing the new guidelines.
- 8. The staff resolved the technical problem quickly.
- 9. Users changed their passwords last week.
- 10. Customers provide feedback about their experiences.

# 17. Write a report explaining why cloud computing is useful for small businesses and what risks they should be aware of. Word count: 170–210 words.

UNIT 11. Databases and database management systems



#### TASKS:

### 1. Read the text and briefly write its meaning.

A database management system (DBMS) is software that helps users create, maintain, and work with databases. It acts as a bridge between users or applications and the database itself, making sure data stays well-organized and easy to access. With a DBMS, users can add, change, read, or delete data securely and efficiently.

# The DBMS consists of three main parts:

The database engine, which handles access and updates,

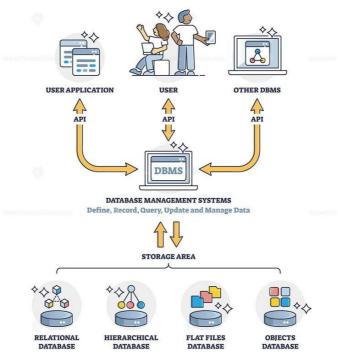
The schema, which defines the structure of the data, and

The management tools, which ensure tasks like security, backups, and performance monitoring are carried out smoothly.

A key feature of a DBMS is that it gives many users access to the same data from different places while still maintaining control over who sees what and how. It also hides the physical details of where data is stored, allowing developers and users to work with data without worrying about how it's organized behind the scenes.

DBMSs offer data independence, meaning applications don't need to change even if the way data is stored changes. This is thanks to the use of standard programming interfaces (APIs).

In the case of relational database systems (RDBMS) – the most common type – the standard language used is SQL. This allows users to define, secure, and retrieve data in a consistent and structured way.



### What are the components of a DBMS?

A DBMS is a sophisticated piece of system software consisting of multiple integrated components that deliver a consistent, managed environment for creating, accessing, and modifying data in databases. These components include the following:

- Storage engine. This basic element of a DBMS is used to store data. The DBMS must interface with a file system at the operating system (OS) level to store data. It can use additional components to store data or interface with the actual data at the file system level.
- Metadata catalog. Sometimes called a system catalog or database dictionary, a metadata catalog functions as a repository for all the database objects that have been created. When databases and other objects are created, the DBMS automatically registers information about them in the metadata catalog. The DBMS uses this catalog to verify user requests for data, and users can query the catalog for information about the database structures that exist in the DBMS. The metadata catalog can include information about database objects, schemas, programs, security, performance, communication, and other environmental details about the databases it manages.
- Database access language. The DBMS also must provide an API to access the data, typically in the form of a database access language to access and modify

data but may also be used to create database objects and secure and authorize access to the data. SQL is an example of a database access language and encompasses several sets of commands, including Data Control Language for authorizing data access, Data Definition Language for defining database structures, and Data Manipulation Language for reading and modifying data.

- Optimization engine. A DBMS may also provide an optimization engine, which is used to parse database access language requests and turn them into actionable commands for accessing and modifying data.
- Query processor. After a query is optimized, the DBMS must provide a means for running the query and returning the results.
- Lock manager. This crucial component of the DBMS manages concurrent access to the same data. Locks are required to ensure multiple users aren't trying to modify the same data simultaneously.
- Log manager. The DBMS records all changes made to data managed by the DBMS. The record of changes is known as the log, and the log manager component of the DBMS is used to ensure that log records are made efficiently and accurately. The DBMS uses the log manager during shutdown and startup to ensure data integrity, and it interfaces with database utilities to create backups and run recoveries.
- Data utilities. A DBMS also provides a set of utilities for managing and controlling database activities. Examples of database utilities include reorganization, run stats, backup and copy, recover, integrity check, load data, unload data, and repair database.

# 2. Answer these questions.

2)	How does a DBMS provide data management capabilities to end users as
applica	tion programs?
,	What are the three foundational elements of a DBMS, and how do they contribumanagement?

5) How does a DBMS provide data independence to users and applications?
6) What is the role of an application programming interface (API) in a relational database management system (RDBMS)?
7) What are the key components of a DBMS, and what functions do they perform?
8) Can you provide examples of database utilities used in managing and controlling database activities?
3. The sentence is True or False.
<ol> <li>A database management system (DBMS) is system software for creating and managing databases.</li> <li>The DBMS allows end users to create, protect, read, update, and delete data in a database.</li> <li>The database engine, database schema, and DBMS together provide concurrency, security, data integrity, and uniform data administration procedures.</li> <li>Most database management systems are responsible for automated rollbacks and restarts, as well as logging and auditing of activity in databases.</li> <li>A DBMS provides a decentralized view of data accessed by multiple users from multiple locations.</li> <li>An API for a relational database management system (RDBMS) is typically SQL, a standard programming language for defining, protecting, and accessing data.</li> </ol>
4.Translate the following English units into Ukrainian:
1) Data Dynamo
2) Management Maven
4) Data Highway-

	s to the words in <u>b</u> nanagement systen	old type.  1 (DBMS) processes queries and returns the
2) I must first find	that <b>record</b> .	
3) They are hereby	separated from the	real Entity.
4) Nevertheless, the sample size and imperfer		oned previously still largely apply: small ata or data definition.
5) This <b>Attribute</b> i	indicates the name of	of the filter list for this user.
<ul> <li>Таблиця</li> <li>Колонка</li> <li>Рядок</li> <li>Метадані</li> <li>Безпека дан</li> <li>Індекс</li> </ul>	nux	nout using the given word itself.
•		
• Primary key	<u>-</u>	
• Data diction	nary	
8. Fill in the blanl	ks with the necessa	ary words in the box.
Data sec	curity	Direct organization

	In-memor	y database	Normalization
mining the implication of the im	tesses, and enhance 2) is a simizing redundan 3) offer the system's memo 4) is part of the system's memo 4).	cing productivity critical aspect cy by organizing lightning-fast da ry, eliminating that aramount in t	efficient retrieval and manipulation, streamlining within databases. of database design, ensuring data integrity and data into logical and efficient structures. ta processing speeds by storing information directly ne need for disk access. oday's digital landscape, with organizations feguard sensitive information from unauthorized
	9. Complete zer	o conditional se	ntences (If + present simple $\rightarrow$ present simple).
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	If you	(enter) inva(be) co(fail)(access) the(be)(contai en(update) the(reach)	(go) down, the system stops working. id data, the system rejects it. complex, it takes longer to run. , data might be lost. database simultaneously, it may slow down. e) correct, the user gains access. n) many rows, search is slower. drop), the transaction is canceled. schema, the application must adapt. its storage limit, no more data can be saved. entences (If + present simple → will + base
2. 3. 4. 5. 6. 7. 8. 9.	If the user If the query If the backup If you If the server If the software If the user If the database  11. Complete see	(forget) t (fail), tl (run) s (input) wrong (overlo (hav (click) "c (approv (be)	slow, the admin will optimize it. the password, they will reset it. the system will return an error. successfully, data will be safe. the data, the system will warn you. ad), it will shut down automatically. be) a bug, the developer will fix it. the lete," the record will be removed. the changes, they will go live. the changes, they data will be protected.  all sentences (If + past simple -> would + base)
1. 2. 3.	If the database _ If I If the system	(be) (have) more stor	faster, users would be happier. rage, I would back up the data daily. ort) more users, it would be more efficient.

4.	If the developer	(know) SQL better, they would write faster queries.
5.	If the backup	(work) correctly, we wouldn't lose data.
6.	If the software _	(be) open source, more people would contribute.
7.	If the company	(invest) in better hardware, performance would
im	prove.	
8.	If the database _	(have) fewer bugs, users would trust it more.
9.	If I	(be) an admin, I would restrict access to sensitive tables.
10.	. If the query	(run) faster, reports would generate quicker.
	12 C	
	_	nird conditional sentences (If + past perfect $\rightarrow$ would have +
pasi	t participle).	
1.	If the admin	(install) updates earlier, the breach would have been
	evented.	
2.	If the backup	(complete) last night, the data would have been safe.
3.	If the user	(enter) the correct password, they would have logged in.
4.	If the developer	(fix) the bug, the system wouldn't have crashed.
5.	If the query	(be) optimized, it would have returned results faster.
6.	If the server	(not fail), the transaction would have succeeded.
7.	If the database	(be) encrypted, the data wouldn't have been exposed.
8.	If the technician	(be) encrypted, the data wouldn't have been exposed (check) the logs, they would have detected the problem.
9.	If the software	(pass) all tests, it would have been released.
10	. If the users	(back up) their data, they wouldn't have lost it.
	12 Danwita aan	4
	13. Kewrite sen	tences using conditionals
1	The database is	slow. Users get frustrated.
$\rightarrow$	The database is	sio W. Cools got it astratoa.
	The backup was	not done. Data was lost.
<u>-</u> .	The sachap was	not wone. Data was rest
3.	The user forgets	the password. They can't log in.
$\rightarrow$	8	1 7 8
4.	The system cras	hes during high load. Data corruption happens.
$\rightarrow$	•	
5.	The admin restri	icts access. The data is safer.
$\rightarrow$		
6.	The developer fi	ixes bugs. The software runs better.
$\rightarrow$		
7.	The query takes	too long. The report is delayed.
$\rightarrow$		
	The server fails.	The transaction is incomplete.
$\rightarrow$		
9.	The company in	vests in security. Breaches reduce.
$\rightarrow$		

 $\rightarrow$ 

### 14. Correct mistakes in conditional sentences

- 1. If the database would be faster, the system runs better.
- 2. If the admin had restricted access, the breach wouldn't happened.
- 3. The software crashes if the user enter wrong data.
- 4. If backups fails, data is lost.
- 5. If the server go down, transactions will fail.
- 6. If the developer fixed bugs, the app runs more smoothly.
- 7. If the users forget their passwords, they resets them.
- 8. The database would be more secure if it encrypted the data.
- 9. If the backup hadn't completed, data wouldn't have lost.
- 10. If the system crashes, the admin restart it.

### 15. Create conditional sentences using AI or ML-related scenarios.

- a. If AI systems were faster, they would analyze data more efficiently.
- b. If the machine learning model had more data, the predictions would improve.
- c. AI tools crash if they encounter corrupted files.
- d. If developers trained algorithms better, biases wouldn't occur.
- e. If the chatbot fails to understand the user, the conversation ends.
- f. If an AI-powered car detects an obstacle, it changes direction.
- g. AI would be more reliable if developers resolved ethical concerns.
- h. If AI systems hadn't evolved, certain industries wouldn't have transformed.
- i. If the machine learning algorithm detects fraud, it flags the transaction.
- j. AI assistants respond faster if their training data is extensive.
- k. If the code had been optimized, the AI model would perform better.
- 1. If AI doesn't receive clear instructions, the output becomes unpredictable.
- m. If facial recognition fails to identify a person, access is denied.
- n. The application crashes if the AI encounters an undefined variable.
- o. If AI systems were regulated, privacy concerns would decrease.

# 16. Rewrite the sentences below to include conditional clauses about AI and ML.

- a. Developers need to fix bugs to improve AI systems.
- b. Data protection is necessary to make AI algorithms secure.
- c. AI tools evolve when developers address biases in datasets.
- d. The financial sector benefits from machine learning models predicting trends.
- e. AI-based healthcare tools assist doctors in patient diagnosis and treatment.
- f. If developers don't consider ethical concerns, AI systems cause harm.
- g. Machine learning algorithms improve when provided with diverse training data.
- h. Companies adopt AI technologies to optimize manufacturing processes.

- i. AI chatbots enhance customer service by responding 6ly to queries.
- j. Advances in NLP help AI-powered translation tools understand nuances in language.
- k. Computer vision improves facial recognition when trained on high-quality images.
- 1. AI systems influence job markets when they automate repetitive tasks.
- m. Machine learning helps detect fraud in financial transactions.
- n. Developers refine algorithms to minimize errors in AI predictions.
- o. Governments regulate AI technologies to ensure transparency and accountability.
- 17. Write an email explaining to your manager why a relational or non-relational database would be more suitable for your current project. Word count: 150–180 words.

# UNIT 12. Artificial intelligence and machine learning

#### TASKS:

### 1. Read the text and briefly write its meaning.



Artificial Intelligence (AI) and Machine Learning (ML) have become essential parts of today's technological landscape, transforming various industries and redefining how humans interact with digital systems. AI involves machines mimicking human intelligence, while ML-a branch of AI- focuses on systems learning from data without needing explicit instructions. These technologies empower machines to take on tasks typically done by people, such as solving problems, making decisions, and translating languages.

A major strength of AI and ML is their capacity to process massive amounts of data to find trends and forecast outcomes. This skill has fueled progress in sectors like healthcare, finance, manufacturing, and transportation. For instance, AI-based tools in medicine can examine scans and patient records to help doctors make more accurate diagnoses and treatment choices. In the financial world, ML is used to predict market changes, understand consumer habits, and detect fraud.

AI and ML are also advancing fields like natural language processing (NLP) and computer vision. NLP allows machines to interpret and generate human language, enabling innovations such as voice assistants, translation software, and chatbots. Meanwhile, computer vision gives machines the ability to "see" and understand images and videos, which supports technologies like facial recognition, self-driving cars, and object tracking.

However, these technologies aren't without issues. Bias in algorithms can lead to unfair outcomes, especially in areas like hiring, financial lending, or law enforcement. The use of personal data raises privacy concerns and calls for more transparency and accountability. There are also broader ethical questions, such as how AI might impact jobs, increase inequality, or affect basic human rights.

In summary, while AI and ML offer great potential to solve real-world problems and boost efficiency, it's crucial to manage them thoughtfully. To fully benefit from these technologies, we must also confront their risks and social impacts. When developed and used responsibly, AI and ML can be powerful tools for innovation and positive change.

### 2. Answer these questions.

2	) What are some examples of tasks traditionally requiring human intelligence that
AI and	d ML now enable computers to perform?
3 patteri	) How do AI and ML leverage large datasets to make predictions and ident ns?
4	) What are some key applications of AI and ML in healthcare and finance?

6) What challenges do AI and ML face, particularly in terms of bias, data privacy and ethical considerations?
7) How can responsible deployment of AI and ML technologies address technical challenges and mitigate ethical and societal implications?
3. The sentence is True or False?
<ol> <li>Artificial Intelligence (AI) and Machine Learning (ML) are the same and can bused interchangeably.</li> <li>AI-powered diagnostic tools in healthcare can assist doctors in making accurated diagnoses and treatment recommendations.</li> <li>Natural Language Processing (NLP) algorithms enable machines to interpret an analyze visual information.</li> <li>Bias in AI algorithms can lead to unfair or discriminatory outcomes in sensitivareas such as hiring and lending.</li> <li>Data privacy concerns arise because AI systems collect and analyze vast amount of personal data.</li> <li>Addressing technical challenges is the only requirement for realizing the furpotential of AI and ML.</li> </ol>
4. Translate the following English units into Ukrainian.
1) Cutting-edge technology
<ul><li>5.Give synonyms to the words in <u>bold</u> type.</li><li>1) New boot loader GPTZFSBoot supports GPT and ZFS.</li></ul>
2) <b>Patterns</b> of consumption and production must be sustainable.

4) This is a classic example of the male standue to <b>training data bias</b> .	dard preferred by the automated system
5) Could <b>Unsupervised Learning</b> Unlock t	he Secrets of the Brain?
6. Translate Ukrainian to English.	
• Штучна нейрона мережа	
<ul> <li>Комп'ютерна програма-</li> </ul>	
<ul> <li>Двійковий код</li> </ul>	
• Характеристики	
<ul><li>Алгоритм</li></ul>	
Output  The second of the sec	
Machine Learning	
8. Fill in the blanks with the necessary wo	ords in the box.
Machine Learning	Model
Large Language Models	Algorithm
1) like GPT-4 can generate hu understanding and producing language with rem 2) has revolutionized various indus data and improve their performance without exp 3) Developing an accurate is crucial in well the system can predict or classify new data.	arkable accuracy. tries by enabling systems to learn from licit programming. n machine learning, as it determines how

# 9. Complete the sentences with a modal verb from the box below. Sometimes more than one answer is possible.

can, could, may, might, must, shall, should, will, would, have to, ought to, need to, mustn't, can't, be able to

1. You install the latest patch before accessing the secure network.
2. Users forget their passwords, so the system includes a recovery option.
3. This code is too clean to contain a bug—it be wrong.
4. Developers test their code thoroughly before deployment.
5. If we optimize the algorithm, we reduce loading times by half.
6. He access the server after the permissions were updated.
7. You share login credentials with anyone—it's a serious security risk.
8. The IT team been able to resolve the issue faster with better
documentation.
9. We release the update this Friday, but it depends on final testing.
10.She not finish the task today if she keeps getting interrupted.
11.All employees attend the cybersecurity workshop next week.
12. You contact technical support if the problem persists.
13. The system is down. I try rebooting it and see if it helps.
14.Developers always consider scalability when designing software.
15. By next year, we implement AI-assisted troubleshooting.
10. Complete the sentences using the correct modal verb (e.g., can, could, may, might, must, shall, should, will, would).
- You complete the report before the deadline if you want to receive full
credit.
- The team consider alternative solutions to improve performance.
- He have arrived earlier if he had taken the earlier train.
- Developers always prioritize user experience when designing interfaces.
- Everyone submit their signed forms by the end of the day.
- I call the vendor tomorrow to clarify the pricing details.
- We not implement the changes until they are thoroughly tested.

- The client appreciate	ng her computer to resolve the connectivity issue. clearer communication regarding project timelines present the finalized version of the app.
11. Choose the correct moda	al verb to complete the dialogue.
B: Yes, we (should/ca A: Do you think we B: It's possible, though we	ust/might) upgrade our software soon.  an) do it, but let's wait until after the next release.  (would/could) face compatibility issues?  (must/might) address them during testing.  bok into this further and prepare a report.
	o include modal verbs to indicate possibility,
obligation, or necessity.	
The project deadline is tomorrove. We are able to finish the task if All employees are required to at The client will accept the proposition.	we work overtime. (possibility)
13. Find the mistakes in the	ese sentences and correct them.
She cans resolve the issue by resolve should to consider scalability. He musts be on time for the meet. The system might works better it. You could not share sensitive in	y in our design.  eting.  f we update the software.
14. Fill in the blanks with a provided.	appropriate modal verbs based on the context
The IT team resolv You report any sec The software not for delay the launce He have informed to	e the issue if they had more resources. urity concerns immediately. unction properly without the latest updates. th until the testing phase is completed. the team about the changes, but he forgot.
15. Match each situation w	ith the correct modal verbs.
<ol> <li>Situation: The server is down.</li> <li>Situation: A team is brainstorn</li> </ol>	ming ideas. Modal verb:aching. Modal verb:

# 16. Write three sentences for each modal verb (must, should, can, may, might, will, would) demonstrating their different uses in a professional scenario.

- \*\*Must\*\*:
- Employees must log their work hours accurately each day.
- The team must meet the deadline to ensure project success.
- Developers must test the software thoroughly before deployment.
- \*\*Should\*\*:
- Managers should provide regular feedback to their teams.
- You should update the document to match the latest format.
- The company should explore new market opportunities.
- \*\*Can\*\*.
- You can access the files from the shared drive.
- The IT team can assist with troubleshooting issues.
- Developers can implement new features using the latest framework.
- \*\*Mav\*\*:
- The update may improve system performance.
- You may contact technical support for additional help.
- This policy may apply to remote workers as well.
- \*\*Might\*\*:
- The server might experience downtime due to maintenance.
- Users might face delays during peak hours.
- The company might launch a new product line next quarter.
- \*\*Will\*\*:
- The system will notify users of any updates.
- We will release the new version once testing is complete.
- Customers will receive a discount on bulk orders.
- \*\*Would\*\*:
- I would appreciate your feedback on the proposal.
- The developer would fix the bug if resources were allocated.
- The client would accept the terms if conditions are favorable.

# 17. Write a simplified article explaining the difference between artificial intelligence and machine learning for tech beginners. Word count: 160–200 words.

# UNIT 13. Internet of Things, IoT

### TASKS:



## 1. Read the text and briefly write its meaning

The Internet of Things (IoT) refers to a system of smart, interconnected devices that communicate with each other and with cloud-based services. These devices are usually equipped with sensors, processors, and networking capabilities, allowing them to collect data from their surroundings and share it over the internet. Examples include smart refrigerators, wearable fitness trackers, connected vehicles, and industrial machines.

One of the key benefits of IoT is that it allows devices to function with minimal human input. They can gather information, send it to a central system for processing, or even analyze it on the spot using local computing power (also known as edge computing). This helps reduce the amount of data that needs to be transmitted, saving time and network resources.

IoT devices often communicate through a central hub known as an IoT gateway. This gateway connects multiple devices, allowing them to work together smoothly. For instance, a smart home system could have a central controller that connects lighting, heating, and security devices, which adjust automatically based on the user's preferences or behaviors.

The technology plays a vital role in many industries. In manufacturing, IoT helps monitor machine performance and predict maintenance needs, reducing downtime. In logistics and supply chains, it allows for real-time tracking of goods and inventory. In agriculture, IoT sensors can monitor soil conditions, weather, and crop health to optimize irrigation and increase yields.

IoT also enhances daily life for individuals. Smart home devices can automate tasks like adjusting the temperature, turning on lights, or even making coffee when a person wakes up. Wearable devices can track health data and alert users to potential health concerns.

To make IoT even more effective, many systems incorporate artificial intelligence (AI) and machine learning (ML). These technologies help devices not just collect and send data, but also learn from patterns, make predictions, and take appropriate actions without being manually programmed for every scenario.

However, as IoT grows, so do concerns around data privacy and security. Since these devices often collect sensitive personal or business information, it's crucial to ensure that data is protected from unauthorized access and misuse.

In summary, IoT is a powerful and evolving technology that connects devices in smarter, more efficient ways. It has already transformed many sectors and continues to open new possibilities for automation, data analysis, and real-time decision-making – both in homes and across industries.

## 2. Answer these questions.

What are IoT devices typically embedded with, and what types of machines objects can they include?	and
2) How do organizations benefit from using IoT in terms of efficiency, custo service, and decision-making?	mer
3) What role does an IoT gateway play in the IoT ecosystem, and how does analyzed data locally benefit the system?	zing
4) How do IoT devices communicate and interact with each other, and what is extent of human intervention required?	the
5) Why is IoT considered essential to both consumers and businesses, and vadvantages does it provide in terms of automation and operational transparency?	vhat

### 3. The sentence is True or False.

- 1) IoT devices typically require human-to-human or human-to-computer interactions to transfer data over a network.
- 2) An IoT ecosystem consists of web-enabled smart devices that use embedded systems to collect, send, and act on data from their environments.
- 3) Analyzing data locally on an edge device increases the volume of data sent to the cloud and maximizes bandwidth consumption.

- 4) IoT devices can only function with constant human intervention and cannot communicate with each other autonomously.
- 5) IoT can use artificial intelligence and machine learning to aid in making data collection processes easier and more dynamic.
- 6) IoT is only useful for consumers and has no significant impact on business operations or efficiency.

4. Torondaka 4b. C. Harring English and the inter Illinoistean

	4. I ranslate the following English units into Okrainian.
	1) Smart grid
	2) Connected ecosystem
	3) Edge computing-
	4) Seamless integration
	5) Remote monitoring
	6) Predictive maintenance
	5. Give synonyms to the words in <b>bold</b> type.
	1) Six different applications of the <b>Internet of Things.</b>
	2) REST has proved to be a popular choice for implementing <b>Web Services.</b>
its	3) The GDPR stands apart from the American approach to <b>information privacy</b> in comprehensive nature.
	4) <b>Security concerns</b> prevented e-voting in this year's Majlis elections.
	5) What are the goals of <b>Denial of Service</b> ?
	6. Translate Ukrainian to English.
	• Бездротова сенсорна мережа
	• Розумні пристрої
	• Інтелектуальне середовище
	Pecypc-
	• Cencop
	• Обман
	• Атака за наймом-

7. Explain this word in English without	using the given word itself.
Machine to Machine	
• M2M process	
• Asymmetric threats	
8. Fill in the blanks with the necessary we	ords in the box.
Internet of Things Intelligent Environments	M2M
1) David Webber, managing director at digital devices by youth has changed the way per 2) The is expanding worldwide 3) Using the service service reterminals by GSM network	ople handle money de. nsor tracking, information from ATMs
9. Fill in the gaps with a verb in the corre	
1. If users (forget) their passwords	•
2. If you (click) this button, the pro-	
4. If the system overheats, it automatically	
5. If they (test) the feature more thoroug	
6. If you (not install) the update, th	
7. If the server goes down, it (trigge	
8. If I (be) the project manager, I would	
9. If the user (enter) incorrect login	*
10.If we (optimize) the database, qu	
11.If you (need) help, the IT depart	ment is always available.
12.If I (know) more about cybersec	urity, I'd help with the audit.
13.If the internet disconnects, the app	(not save) your progress.
14.If you (press) Ctrl + S, the document	ment saves automatically.

15.If we had more time, we (develop) a mobile version too.
10. Fill in the gaps with the appropriate future tense (Future Simple, Future Continuous, Future Perfect, Future Perfect Continuous, to be going to, Present Continuous).
1. By next year, the company (develop) a fully automated cybersecurity
platform.
2. At 10 a.m. tomorrow, the team (run) penetration tests on the new system.
3. I (not finish) the deployment by noon unless I get assistance.
4. They (launch) the updated version as soon as testing is complete.
5. We (have) a meeting with the software vendor this afternoon.
6. She (work) on the cloud migration project for six months by the time it's
done.
7. I think the AI assistant (replace) basic support queries in the near future.
8. Look at the CPU usage — it's clear the server (crash) if we don't
intervene.
9. They (not install) the patches until they've verified all the dependencies.
10. This time next week, we (present) the final results to the stakeholders.
11.We (start) the security audit at 9 a.m. sharp tomorrow.
12.By 2026, most IT infrastructure (move) to decentralized cloud
environments.
13.He (not attend) the briefing because he'll be working on the update.
14.Our team (complete) the user documentation by Friday morning.
15.In two hours, she (debug) the new API module for over five hours
straight.
11. Complete the sentences with the correct future tense form of the verbs in parentheses.
- By next year, we (launch) the new feature globally At 6 p.m. tomorrow, they (test) the backup systems for potential failures.

- She (not finalize) the report until all data is verified.
- This time next month, our company (host) its largest online symposium
yet.
- Don't worry about the repairs; the contractor (finish) them by Friday
afternoon.
- By 8 a.m., the delivery drones (operate) for over three months in this
area.
- He (not participate) in the webinar because he'll be visiting clients
overseas.
- In two weeks, the team (evaluate) the software upgrades thoroughly.
- When the training session starts, the interns (learn) the basics of IoT for
five hours already.
- We (begin) the implementation phase right after the kickoff meeting
tomorrow.
12. Rearrange the sentences to use correct future tense forms.
- By the end of the year, most small businesses (adopt) AI-assisted
marketing tools.
- Tomorrow afternoon, the analysts (discuss) the quarterly earnings
report with the board of directors.
- She (not approve) the contract changes until all stakeholders agree.
- The advanced robotics division (present) their findings in the upcoming
expo.
- We (monitor) server activity closely during the migration process
tomorrow.
- In the next decade, experts predict that renewable energy sources
(replace) traditional power grids entirely.
- They (not proceed) with the release until all beta testers provide their
feedback.
- By 3 p.m., the technicians (install) the latest firmware updates on all
devices.
- The security team (conduct) a thorough vulnerability assessment by the
end of the day.
- When the conference begins, the delegates (prepare) their reports for
over a week.
13. Correct the mistakes in these sentences.

- She will finish the design of the website until next Friday.
  Our team presenting the results of the study tomorrow morning.
- ❖ By November, we will starts the development of new IoT solutions.
- Don't worry, the upgrades won't install until the system is rebooted.
- They will be completed the testing phases by the end of next week.

- ❖ During the training, the interns are learned the fundamentals of AI-based automation.
- ❖ By 2028, renewable technologies were replaced traditional energy sources worldwide.
- This time tomorrow, we hosting a webinar on the latest trends in e-commerce.
- ❖ The delivery drone will not operate until weather conditions are suitable.
- ❖ In five hours, she debugged the new API module tirelessly.

# 14. Choose the correct future tense form to complete the sentences.

*	At 3 p.m. tomorrow, the IT team (upgrade/have upgraded) the outdated
	systems.
*	By next week, she (complete/will complete) the research on blockchain
	applications.
*	They (not analyze/will not analyze) the data until it is fully available.
*	This time next year, our business (expand/will be expanding) into new
	international markets.
**	He (present/will present) the draft proposal once the client feedback is
٠.	received.
**	In two hours, the engineers (work/will work) on the cloud migration
*	project for seven days straight.  Py next month, the company (launch/will have launched) its IoT applied.
•••	By next month, the company (launch/will have launched) its IoT-enabled smart devices.
*	Tomorrow morning, the logistics team (deliver/will be delivering) the first
•	batch of products to customers.
*	The results (not be analyzed/will not have been analyzed) by the time the
	conference takes place.
*	In ten years, autonomous vehicles (replace/will replace) most traditional
	cars on the road.
	15. Fill in the blanks using the appropriate future tense.
	By the end of the fiscal year, we (increase) our market penetration to
	5%.
*	In two weeks, the IT department (test) the new security protocols.
	When the project concludes, the researchers (examine) the collected data r months.
	She (not attend) the team meeting tomorrow due to a prior engagement.
	At this time next year, the startup (employ) over 200 professionals in its
	arious departments.
	By Friday evening, the development team (finalize) the prototype of the
	ew app.
	The marketing campaign (launch) at exactly 9 a.m. tomorrow morning.
	They (not confirm) the partnership until the legal agreement is reviewed.
	By next Wednesday, every department (receive) training on the updated
	olicy guidelines.

*	In three hours, the event organizers (prepare) the venue for over a week.
	16. Create sentences using the provided verbs in future forms.
	❖ debug
	❖ integrate
	* propose
	❖ assess
	❖ enable
	❖ migrate
	❖ launch
	❖ optimize

17. Write a product description for a smart home device that uses IoT. Highlight how it improves everyday life. Word count: 140–170 words.

verifyupdate

### UNIT 14. Business on the Internet

### TASKS:





#### **Business on the Internet**

The advent of the internet has revolutionized the way businesses operate, creating a dynamic and ever-evolving digital marketplace. The term "e-business" encompasses all types of business activities conducted online, from selling products and services to managing customer relationships and supply chains.

One of the most significant advantages of conducting business on the internet is the ability to reach a global audience. Traditional brick-and-mortar stores are limited by their physical location, but online businesses can market their products and services to customers around the world. This expanded reach not only increases potential sales but also enables businesses to tap into niche markets that may not be viable in a local setting.

### E-commerce Platforms

E-commerce platforms like Amazon, eBay, and Shopify have made it easier for businesses to set up online stores. These platforms provide a comprehensive suite of tools that help with inventory management, payment processing, and shipping logistics. They also offer analytics and reporting features, allowing businesses to track performance and make data-driven decisions.

## **Digital Marketing**

Digital marketing is a cornerstone of internet business. Techniques such as search engine optimization (SEO), pay-per-click (PPC) advertising, social media marketing, and email marketing are crucial for driving traffic to online stores. Effective digital marketing strategies help businesses increase their visibility, attract more customers, and ultimately drive sales.

# **Customer Relationship Management (CRM)**

The internet has also transformed how businesses manage customer relationships. CRM systems are now more sophisticated, integrating various communication channels like email, social media, and live chat. These systems enable businesses to provide personalized customer experiences, track customer interactions, and build long-term loyalty.

### **Cloud Computing**

Cloud computing is another technological advancement that supports online businesses. Cloud services offer scalable and cost-effective solutions for data storage, processing, and software applications. This flexibility allows businesses to scale their operations quickly in response to changing demand, without the need for significant upfront investment in IT infrastructure.

### Challenges

Despite the numerous advantages, doing business on the internet comes with its own set of challenges. Cybersecurity is a major concern, as online businesses are prime targets for cyberattacks and data breaches. Ensuring robust security measures to protect customer data and business operations is crucial. Additionally, the fast-paced nature of the internet means that businesses must continually innovate and adapt to stay competitive. Changes in technology, consumer behavior, and market trends require constant vigilance and flexibility.

In conclusion, the internet offers vast opportunities for businesses to expand their reach, improve their operations, and enhance customer relationships. By leveraging ecommerce platforms, digital marketing, CRM systems, and cloud computing, businesses can achieve significant growth and success in the digital marketplace. However, they must also be prepared to address the challenges associated with cybersecurity and rapid technological change. Embracing the dynamic nature of the internet and remaining adaptable will be key to thriving in this ever-evolving business landscape.

### 2. Answer these questions.

,	What are some of the primary advantages of conducting business on the inte ed to traditional brick-and-mortar stores?	erne
2) busines	How do e-commerce platforms like Amazon, eBay, and Shopify support or ses?	nline
_		

3) Why is digital marketing important for online businesses, and what are some techniques used in digital marketing?
4) How have Customer Relationship Management (CRM) systems evolved with the advent of the internet, and what benefits do they offer businesses?
5) What are some of the challenges businesses face when operating on the internet, and how can they address these challenges?
3. The sentence is True or False.
<ol> <li>Traditional brick-and-mortar stores can reach a global audience just as easily as online businesses.</li> <li>E-commerce platforms provide tools for inventory management, payment processing, and shipping logistics.</li> <li>Digital marketing is not necessary for driving traffic to online stores.</li> <li>CRM systems now integrate various communication channels like email, social media, and live chat.</li> <li>Cloud computing offers scalable and cost-effective solutions for data storage and processing.</li> <li>Cybersecurity is not a significant concern for online businesses.</li> </ol>
4. Translate the following English units into Ukrainian.
1) Level the playing field
<ul><li>5. Give synonyms to the words in <u>bold</u> type.</li><li>1) You can buy just about anything online, and because the online stores do not have the overheads that come with <b>high street premises</b>, they can generally sell the same</li></ul>

products cheaper than the physical stores.

	2) People want a <b>competitive edge</b> these days.	
<b>cus</b> in o	3) To effectively personalize these conversations, Wong says you need a rotetomer data management platform that allows your team to access all customer cone centralized location.	
	4) <b>Price comparison</b> sites typically do not charge users anything to use the site.	
cus	5) Our extensive experience and engineering capabilities make us the lead stomer-oriented oil and gas company in China.	ing
	6. Translate Ukrainian to English.	
•	Інтернет маркетинг	
•	Оптимізация витрат	
•		
•	Доставка до дому	
•		
•	Конкуретноспроможність	
•	Затримка доставки	
	<ul> <li>7. Explain this word in English without using the given word itself.</li> <li>Potential market expansion</li></ul>	
	Flexibility in operations	
	Core marketing tool	
	8. Fill in the blanks with the necessary words in the box.	
	Potential market expansion Innovation Staff reduction Competitive edge Global reach Product variety	
	Progress in efficiency is likely to speed up and ultimately to exceedfor commodities.	all

2) Vario	us brands producing fashionable foo	twear must constantly maintain a
the industry.	will provide the governmen	
frequirements a 5) Today upgrades.	according to the specific application.  y, people are very concerned about	because of equipment
	ete the sentences using the past d/ might have + past participle" in th	
1. If she	(study) harder, she	_ (pass) the exam.
2. They	(arrive) on time if they	(leave) earlier.
3. If I	(know) you were sick, I	(visit) you.
4. We	(not miss) the flight if we	(book) a taxi.
5. If he	(listen) to my advice, he	(avoid) the mistake.
6. She	(be) happier if she	(marry) someone else.
7. If you	(tell) me the truth, I	(forgive) you.
8. He	(get) the job if he (pr	epare) more for the interview.
9. If we	(not spend) all the money, we	(have) enough for rent.
10. You	(enjoy) the trip if you	(come) with us.
11. If they _	(check) the weather, they	(not go) hiking.
12. I	(not burn) the cake if I	(set) the timer.
13. If she	(practice) more, she	(win) the competition.
14. We	(understand) the problem if we	(ask) more questions.
15. If he	(not forget) her birthday, she	(not get) so angry.
conditional in	mplete the sentences with the corn the if-clause and the second or first the meaning.	
1. If I	(not break) my leg last week, I (save) more money, she	(play) in today's match.
3. He	(be) at university now if he	(not fail) the entrance exam.
4. If they	(learn) to code earlier, they	(have) better jobs today.

5. I	lf you	(not lie) to me, I (trust) you now.	
6. I	[	_ (feel) more confident today if I (practice) yesterday.	
7. I	lf we	(not miss) the train, we (be) in Paris by now.	
8. 1	If she	(take) the other job, she (earn) more now.	
9. 1	Не	(not be) so tired if he (go) to bed earlier.	
10.1	lf you	(listen) to me back then, you (not be) in trouble now.	
11.7	They	(join) us for dinner if they (finish) work earlier.	
12.1	If he	(join) us for dinner if they (finish) work earlier (not crash) the car, we (use) it tomorrow.	
13.1	L	(help) you now if I (learn) how to do it earlier.	
14.1	If she	(not argue) with her boss, she (still/work) there.	
15.1	lf you	(take) that course last year, you (pass) the exam this	
year			
	•	ete the sentences with the correct verb forms	
•	If they	(study) harder, they (pass) the test next week (not arrive) on time if we (take) the earlier bus.	
•	We	(not arrive) on time if we (take) the earlier bus.	
•	If you	(not finish) your report today, you (miss) the deadline	
tomo	orrow.		
•	She	_ (be) happier now if she (choose) a different career path.	
•	If he	(accept) the offer earlier, he (be) the manager now.	
•		(not face) financial difficulties if they (save) more	
	year.	•	
•	I	(call) you if I (not lose) your number yesterday.	
•	If we	(not cancel) the event, everyone (attend) it tonight.	
•	If she	(leave) earlier, she(catch) the flight yesterday.	
•		(understand) the concept if you (read) the book last week.	
	12. Identif	and correct the mistakes in the sentences	
•	If I had w	ent there, I would have met them. (Correct:)	
•		ln't be tired now if she didn't stay up late yesterday. (Correct:	
	)		
•	They will	arrive on time if they would take a taxi. (Correct:)	
•		tudied, he will pass the exam. (Correct:)	
•	I wouldn'	have missed the train if I leave earlier. (Correct:)	
•	If you we	e more careful, you will not forget your wallet. (Correct:	
	)	,,	
•	We could	be there now if we would not get lost. (Correct:)	
•		I helped me, I could finish everything earlier. (Correct:	
	)	,	
•	You woul	dn't be in trouble if you were listened to me. (Correct:	
•		dn't argue with them, she wouldn't have lost her job. (Correct:	
	)	and the second of the second o	

# 13. Transform the sentences into conditional forms

	e for the meeting; he isn't confident now.	
(Transform:		
<ul> <li>We missed the tr</li> </ul>	rain; we aren't in Paris now. (Transform:	)
<ul> <li>She didn't accep</li> </ul>	t the job offer; she isn't earning more now.	
(Transform:		
	early; he's tired now. (Transform:	_)
<ul> <li>You didn't lister</li> </ul>	to my advice; you're in trouble now.	
(Transform:	)	
<ul> <li>They didn't finis</li> </ul>	sh work on time; they didn't join us for dinne	r.
(Transform:	)	
<ul> <li>He crashed the c</li> </ul>	ar; we aren't able to use it tomorrow.	
(Transform:	)	
• I didn't learn ho	w to do it; I can't help you now. (Transform:	)
<ul> <li>She argued with</li> </ul>	her boss; she isn't still working there.	
(Transform:	)	
<ul> <li>You didn't take t</li> </ul>	the course last year; you didn't pass the exam	this year. (Transform:
)	-	
44.60		
	orrect verb forms	
	(had/have) practiced more, I	(would/would have)
been better now.		
•We	(would/would have) arrived earlier if we _	(take/had
taken) the train on time		
• If she	(had/have) chosen the other job, she	(would/would
have) been earning mo		
•He	(would/would have) been less tired if he	(go/had
gone) to bed earlier.		
• If you	(had/have) listened to me, you	(would/would have)
been in a better position	n now.	
• They	(would/would have) joined us for dinner	if they
(finish/had finished) w	ork earlier.	
• If he	_ (had/have) taken care of the car, we	(would/would
have) used it tomorrow		
• I (v	vould/would have) helped you if I	_ (learn/had learned)
how to do it.		
• If she	(argue/had argued) less, she	(would/would have)
still been working there		
• If you	(had/have) taken that course, you	(would/would
have) passed the exam	easily.	

#### 15. Write conditional sentences based on the scenarios

<ul> <li>You forgot to bri</li> </ul>	ng an umbrella, so you're	wet now. (Write:)
• We didn't book t	ickets early, so we couldn	't attend the concert.
(Write:	_)	
• She didn't study	for the test, so she didn't p	pass it. (Write:)
• He didn't save m	oney last year, so he can't	afford the trip now.
(Write:	_)	
• I didn't call you,	so I didn't get your advice	e. (Write:)
• They didn't prepa	are well, so they didn't wi	n the competition.
(Write:	)	
• He didn't apply f	or the job, so he isn't emp	oloyed now. (Write:)
• If you	_ (not eat) breakfast, you	(feel) hungry now.
• If the weather	(be) better, we	(go) hiking yesterday.
• If she	(try) harder, she	(succeed) in her project last month.

## 16.Match the two halves of the conditional sentences

First half	Second half
If he had studied harder,	he wouldn't be struggling with his grades now.
If we hadn't missed the flight,	we would be at our destination by now.
If she had accepted the offer,	she would be working at a better position now.
If they had prepared for the presentation,	they would have impressed the audience.
If you had listened to the instructions,	you wouldn't have made a mistake.
If he hadn't stayed up all night,	he would be more energetic now.
If she had apologized to her colleague,	she would still be friends with them.
If we had arrived earlier,	we wouldn't have missed the opening ceremony.
If the weather had been better,	we would have gone for a picnic.
If she had invested wisely,	she would be wealthier now.

17. Write a short business plan for launching a small online business. Describe the product, the platform, and your digital strategy. Word count: 180–220 words.

# UNIT 15. Internet shopping

#### TASKS:

# 1. Read the text and briefly write its meaning.



# Online Shopping: A Modern Convenience

Thanks to advancements in science and technology, many everyday tasks can now be done from the comfort of our homes – and shopping is no exception. Buying products over the internet has become extremely common and is increasingly preferred by people from all walks of life. Online shopping means purchasing goods through websites without going to a physical store. In today's fast-paced world, where many people are pressed for time due to work and other responsibilities, this method of shopping offers a practical and time-saving alternative. Shoppers can order everything from clothing and electronics to household items and accessories without leaving their homes.

#### Here are some of the main advantages of shopping online:

Ease of Use – It's ideal for those with demanding work lives who don't have time to visit shops in person.

Avoiding Busy Places – People who dislike the hustle and bustle of shopping centres can make purchases from their homes or offices.

Greater Selection – The internet provides access to a vast assortment of products that might not be available in local stores. Consumers can browse multiple platforms to find exactly what suits them best.

Flexible Payment Methods – Buyers can pay using credit or debit cards, and many platforms even offer the option to pay upon delivery, eliminating the need to carry cash.

However, online shopping also comes with some downsides. Sometimes, the product that arrives doesn't quite match the one pictured or described online. Differences in size, colour, or quality can lead to disappointment. Moreover, there are fraudulent sites that appear trustworthy but are actually scams, tricking buyers with false deals or fake items. For this reason, it's important to be careful and do some research before making a purchase online to avoid future problems.

#### 2. Answer these questions.

) How	does online sho	pping benefit	individuals v	vith busy so	hedules?	
		41	111			
) wn ing?	at are some of	the potential	drawbacks	or risks a	ssociated	with
Wh	is it important to	exercise caut	ion and make	e informed	choices wh	nen sh

# 3. The sentence is True or False.

- 1) Online shopping allows people to buy items without visiting physical stores.
- 2) People who enjoy crowded places prefer online shopping over visiting malls.
- 3) Online shopping typically offers a smaller variety of products compared to physical stores.
  - 4) Payment options for online shopping are limited to physical cash.
- 5) There is no risk of receiving items that do not match your expectations when shopping online.

<b>4. Translate</b> 1) Add to can	the following English units into Ukrainian.
3) Virtual sta	ou drop prefront
4) Buyer's re	emorse
	onyms to the words in bold type.  at extraordinary measures were made for.
2) Others tak	te the prepayment and <b>disappear</b> .
3) Her facial ne concept.	expression changed from confusion to understanding as she grasped
4) It is <b>admi</b>	ttedly a difficult time to be in business.
5) E-comme	rce has changed the way business is done today.
6. Translate  • Кількі	Ukrainian to English:
• Інтер	нет-ринок
• Проду	уктовий магазин
• Збілы	иення ціни
• Цифр	овий платіж
• Відгун	ки покупців
<ul> <li>Cnuco</li> </ul>	ок бажань
	his word in English without using the given word itself.
• Acce	ess limitation
• Mari	ket presence

# 8. Fill in the blanks with the necessary words in the bolow:

	add to cart	online discounts	
	virtual storefront	access limitation	
	-		
	1) After browsing through the online		latest
sma	artphone modelfor purchase		
	2) The horizontal commitments section	n of the schedule listsre	elevant t
	le in all services.		
	3) For some product categories,h the possibility for the buyer to interact	_ systems can be used as a virtual	l storefr
wit	h the possibility for the buyer to interact	tively create the product he needs.	
	4) Also, be sure to check for	and deals that could save you n	noney.
	9. Rewrite each sentence using a par	rticiple clause.	
1.	Because she was impressed by his spee	ch, she offered him the job.	
3.	→, When I opened the window, I saw the b	peautiful view.	
4.	→ · · · · · · · · · · · · · · · · · · ·	I saw the beautiful view.	
5.	→ As he had forgotten his keys, he couldr	't enter the house.	
6.	→ · · · · · · · · · · · · · · · · · · ·	he couldn't enter the house.	
7.	→, Since he was injured, he didn't play in	the match.	
9.	$\rightarrow$ After I had finished my homework, I w	ent out with friends.	
11.	→, When it is used correctly, AI can impro	ove productivity.	
13.	→ While he was talking on the phone, he	was driving.	
	$\rightarrow$	he was driving.	
	Although she was warned about the risk	ks, she went ahead.	
16.	→ As they were built over a century ago,	she went ahead.	
17.	As they were built over a century ago,	the houses need renovation.	
18.	→, When they are translated poorly, idiom	the houses need renovation.	
20.	→, Because she had studied in London, he	idioms can be confusing.	
22.	→, After he had been rejected three times,	her English was fluent.	
23.	After he had been rejected three times,	he finally got the job.	
	$\rightarrow \_\_\_,$	he finally got the job.	
	While walking in the forest, we saw a d	leer.	
	$\rightarrow$ ,		
	As the letter had been written in haste,		
28.	→, Since they were trained professionals, t	it was full of mistakes.	
29.	Since they were trained professionals, t	hey handled the crisis well.	

30. →	, they handled the crisis well.
10. Fill i	n the gaps using the correct participle form of the verb in brackets.
l <b>.</b>	(finish) the presentation, she felt relieved.
2.	(walk) through the streets of Rome, we admired the architecture.
The letter,	(send) last week, still hasn't arrived. (know) what to do, he acted immediately.
	(know) what to do, he acted immediately.
. The childre	n, (excite) by the news, started jumping around (not eat) all day, he was starving.
ó	(not eat) all day, he was starving.
7. The docum	ents. (sign) by both parties, are now legally binding.
3	_ (live) abroad for years, she spoke several languages fluently.
. The cake, _	(decorate) with fresh fruit, looked amazing.
0	(decorate) with fresh fruit, looked amazing(look) for his phone, he checked every pocket.
1. The actor,	(recognize) by the fans, smiled and waved.
2	(recognize) by the fans, smiled and waved (injure) in the accident, he was taken to hospital.
3. The team.	(motivate) by the coach, trained hard for the match.
4	(be) a teacher for 10 years, he knew how to handle the class.
5. The book,	(write) in the 19th century, is still popular today.
• The car, • The docur	(complete) the marathon, he felt a huge sense of accomplishment(wear) her traditional outfit, she looked stunning at the festival(repair) yesterday, runs perfectly now(work) on the project for hours, he finally took a break. ments, (translate) from French, are ready to be sent(know) the routine well, she performed flawlessly on stage.
• The painti	ng, (restore) by experts, is ready for display.
	(search) for a solution, they brainstormed ideas tirelessly.
•	(study) the map, they finally found the right route.
12. Choo	ose the correct form of the verb to complete the sentences.
	(know/knowing) the area well, he guided us through the city.
	ture, (create/created) by a famous artist, is admired by all.
•	(train/trained) in martial arts, she was able to defend herself.
• The cake,	(decorate/decorated) with flowers, looked beautiful.
•	(leave/left) early, he missed the announcement.
• The team,	(motivate/motivated) by their captain, played exceptionally
ell.	(spend/spent) a summer in Italy, she learned to speak fluent Italian.

- The manuscript, (write/written) in Latin, needed translation. (design/designed) by an architect, the building is unique. (walk/walked) for hours, they finally reached the summit. 13. Rewrite the sentences, correcting any grammar mistakes. The player, train by a coach, was ready for the match. The report, wrote by the assistant, was presented at the meeting. • Having finish the homework, he went outside to play. The garden decorate with lights is beautiful. Living in Paris for years, he knows the city well. The car, fix yesterday, is now running perfectly. • Looking for their keys, they searched under every cushion. • Injured in the match, the goalkeeper was replace by another player. • The book write by a famous author is a bestseller. • Having spend all his savings, he decided to find a job quickly. 14. Match the sentences with their correct meaning. • A chef \_\_\_\_\_ (train) for years knows how to prepare perfect dishes. • The bridge, \_\_\_\_\_ (build) in 1889, is a historic landmark. (live) near the ocean, the family enjoys swimming every weekend. The speech, \_\_\_\_\_ (write) by a professional, inspired everyone in the room. (work) as a teacher for decades, he earned the respect of his students. • The vase, \_\_\_\_\_ (decorate) with intricate patterns, is a masterpiece. • \_\_\_\_\_ (read) the instructions carefully, she was able to assemble the furniture. • The team, (motivate) by their coach, won the championship. (study) for weeks, she aced the test effortlessly. • The movie, \_\_\_\_\_ (direct) by a renowned filmmaker, received several awards. 15. Fill in the blanks using the correct verb forms. • The house, (paint) last summer, still looks fresh. (travel) across Europe, they had numerous adventures. • The dog, (rescue) from the shelter, became a loving companion. (play) in the rain, the children had a great time. • The castle, \_\_\_\_\_ (restore) by experts, is open to visitors now.
- The manuscript, \_\_\_\_\_ (edit) thoroughly, was submitted to the publisher.
  \_\_\_\_\_ (know) all the answers, he finished the quiz quickly.

(grow) roses for years, she knows how to care for them.

- The dress, \_\_\_\_\_ (sew) by hand, was truly unique.
- \_\_\_\_\_ (stand) at the edge of the cliff, he admired the view.

## 16. Rearrange the given words to form grammatically correct sentences.

- Having / prepared / carefully / speech / her / delivered / she / confidently.
- The / decorated / with / cake / fresh / fruit / was / amazing.
- The / restored / experts / by / painting / is / ready / display / for.
- Living / abroad / years / for / she / fluently / several / spoke / languages.
- Looking / keys / they / for / searched / every / pocket.

1. Read the text and briefly write its meaning.

- Injured / accident / in / taken / he / hospital / the / was / to.
- The / motivated / coach / team / trained / by / hard / match / for.
- Being / for / teacher / 10 / he / years / handle / knew / how / the / class.
- The / written / in / book / century / 19th / still / popular / is / today.
- The / signed / documents / both / by / are / parties / legally / binding / now.

# 17. Write a comparison of two online shopping platforms. Focus on user experience, delivery speed, and payment options. Word count: 150–180 words.

## UNIT 16, ART

#### TASKS:

## IS PHOTOGRAPHY ART?

Today, this question might seem outdated. Surrounded by countless images, we tend to accept that photography goes beyond simply delivering information or advertising

products – it also enhances spaces visually, inspires us emotionally, and helps us reflect on the world around us. However, in the early years after photography was invented, people actively debated how this new, mechanical medium could be incorporated into the long-established world of fine art.

A famous quote from the artist Paul Delaroche, who claimed that the invention of the daguerreotype meant the end of painting, is particularly puzzling. In another statement from the same year, 1839, he also acknowledged the potential of photography as a helpful tool for visual artists. His mixed messages were representative of the broader artistic community's divided reaction, ranging from full rejection to partial acceptance. The debate was especially intense in France, where many artists were affected by government policy, but it also sparked serious discussion in England. In both countries, art was considered closely tied to national prestige and cultural success.

Amid the back-and-forth arguments, three major perspectives on photography's artistic potential developed:

The most skeptical group – including some artists and members of the public – argued that photography couldn't be classified as art because it was created using machines and chemicals rather than human creativity and craftsmanship. To them, a photo was closer to a mass-produced fabric than to a painting born of inspiration.

Another, more moderate viewpoint, shared by some painters and critics, acknowledged that photography could serve the arts as a reference or study aid – but didn't view it as artistically equal to drawing or painting.

The third, more supportive stance suggested that photography could be treated like other printmaking methods, such as etching or lithography. Supporters of this idea believed that photographs could be just as meaningful as handmade artworks and that they might even positively influence art and society.

Artists responded to photography in different ways. Many portrait painters – especially miniaturists – realized their careers were threatened and began using daguerreotypes or early forms of photography to adapt. Some blended photography with painting, while others gave up traditional painting entirely. Notably, the French painter Ingres used photography to document his work and to help plan compositions, although he insisted that it didn't affect his artistic vision or qualify as art in its own right.

Critics like Lacan and Francis Wey provided thoughtful reflections on the usefulness of photography. Wey, who worked in both literary and artistic circles, eventually recognized photography's expressive possibilities. He believed it could help artists better depict anatomy, facial expressions, clothing, and scenery, and free them from routine tasks so they could focus more on deeper artistic concerns.

However, not all critics were supportive. Charles Baudelaire, an influential French poet and art critic, was strongly opposed. In 1859, responding to a photography exhibition, he argued that untalented or lazy painters would turn to photography. To him, true art was about imagination and refined ideas, while photography was stuck in the realm of physical reality. He called it a "humble servant" of both art and science and saw it as part of an industrial trend that, in his view, was degrading the spiritual quality of culture.

On the other hand, the painter Eugène Delacroix welcomed photography, though he acknowledged its limits. He regretted that the invention had come too late in his life, yet

he still learned how to use it and collected photographs. He believed that, when used properly, photography could help artists reach new heights.

The debate was not limited to France. In England, people also discussed whether photography was a form of documentation or a true art. An anonymous article stated that photography had a purpose but should not be forced to compete directly with painting. Some critics, like Philip Gilbert Hamerton, were more critical. He dismissed photography as overly simplistic, pointing out that it could present one truth while obscuring many others.

Underlying this skepticism was a fear among cultural elites in both countries. They worried that photography, made widely available through commercial studios and sold in city shops, would make art too accessible. In their eyes, this popularity, especially among the middle class, would shift public taste from imaginative, idealistic works to ordinary realism. Still, even some critics admitted that individual photographers sometimes produced work that could be appreciated for its artistic quality and emotional depth.

These writers reflected the opposition of a section of the cultural elite in England and France to the 'cheapening of art', which the growing acceptance and purchase of camera pictures by the middle class represented. Technology made photographic images a common sight in the shop windows of Regent Street and Piccadilly in London and the commercial boulevards of Paris. In London, for example, there were at the time some 130 commercial establishments where portraits, landscapes, and photographic reproductions of works of art could be bought. This appeal to the middle class convinced the elite that photographs would foster a desire for realism instead of idealism, even though some critics recognized that the work of individual photographers might display an uplifting style and substance that was consistent with the defining characteristics of art.

2. Answer these questions.

# 1) What is the writer's main point in the first paragraph? 2) What public view about artists was shared by the French and the English? 3) What does the writer mean by "the handwriting on the wall"? 4) What was the result of the widespread availability of photographs to the middle classes?

#### 3. The sentence is True or False.

1) handrowiting on the wall

- 1) The pronouncement by painter Paul Delaroche signified the acceptance of photography as an art form.
- 2) The view that photographs were comparable to fabric produced by machinery in a mill was held by many painters and a section of the public.
- 3) Artists like Jean-Auguste-Dominique Ingres embraced photography as a tool for their work but denied its influence on their artistic vision.
- 4) Francis Wey suggested that photography would lead to greater artificiality in the graphic depiction of various subjects.
- 5) According to Baudelaire, photography was regarded as a humble servant of art and science and was believed to have detrimental effects on the spiritual aspects of life and art.

4. Translate the following English units into U	Ukrainian	
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1) handwriting on the watt
2) external reality
2) external reality
4) such a wonderful invention-
5) raise himself to heights that we do not yet know-
6) narrow in range, emphatic in assertion, telling one truth for ten falsehoods-
7) cheapening of art
5. Give synonyms to the words in <u>bold</u> type.
1) British artist pledges 28 days in isolation wearing a VR headset.
2) The <b>competition</b> becomes stronger every year.
3) <b>Hatching</b> in this style is almost not used.
4) <b>Shadows</b> on the face or behind it aren't allowed.
5) It doesn't exist except as an <b>assemblage</b> of elements.

	6. Translate Ukrainian	to English.	
	<ul> <li>Рисунок-</li> </ul>		
	<ul> <li>Обмежений-</li> </ul>		
	<ul> <li>Якість лінії або в</li> </ul>	ага лінії	
	• Геометрична фіг	vpa	
	<ul> <li>Джерело світла</li> </ul>		
	• Основні моменти		
	<ul> <li>Відтінок</li> </ul>		
	7. Explain this word in	English without using the g	iven word itself.
	• Daguerreotype		
	Beneficial		
	• Inferior		
	8. Fill in the blanks with	n the necessary words in the	e box.
	inventive	mixed	next
	beneficial	inferior	justified
	inventive	similar	innovative
as vie ph	ree clear views emerged. A let to painting to painting ew was that photographs of the otographer being less	arge number of artists and ord is because of the way they we could have a role to play	re were, but dinary people saw photographs ere produced. Another popular in the art world, despite the er number of people suspected 
	9. Complete the sentence	es with one of the prepositi	ons from the box.
	in, on, at, to, from, of, for	r, with, about, by, into, throu between	igh, over, under,
1	The data was transferred	the local server to	the cloud environment
2.	She's an expert	network security and encr	vption protocols.
	We encountered an error	the installation p	rocess.
4.	The update will be availab	le all users by the	he end of the week.

5. Always back up your files advance to avoid data loss. 6. The file is too large to send email. 7. They're working a solution to improve loading speed. 8. The system crashed a lack of available memory. 9. He logged the server using his admin credentials. 10. There's a conflict the new plugin and the current CMS version. 11. She specializes developing custom database queries. 12. This application is not compatible older operating systems. 13. We accessed the intranet a secure VPN connection. 14. They're responsible maintaining the company's digital infrastructure. 15. He gained unauthorized access the internal documentation folder.
10. Complete the sentences with one of the prepositions from the box.  about - across - along - behind - below - by -for - from - near - of - off - on -
over -through - throughout - to - under - up - with
1. The technician is responsible updating the security settings.
2. The new regulations apply all departments, not just IT.
3. We walked the server racks to check the cable connections.
4. The error log is stored just the system files directory.
5. This folder contains confidential information not meant public access.
6. There's a security camera installed the entrance to the data center.
7. The team worked late into the night to catch on the deadline.
8. The firewall blocked the connection an untrusted IP address.
9. We received an urgent email the network administrator.
10. There was a major spike in traffic the site was mentioned in the news
11.Can you find out more this software update before we install it?
12.She collaborated closely the backend developers on the API integration.
13. The access point is hidden the main server cabinet.
14. Data was compromised because the file was left open encryption.
15. They launched the campaign simultaneously all social media platforms.
11. Fill in the blanks with the correct preposition.
1. The server crashed midnight due to an overload.

2. She saved her progress the cloud storage system.
3. The new software update was rolled out the weekend.
4. The data transfer was interrupted a technical issue.
3. The new software update was rolled out the weekend. 4. The data transfer was interrupted a technical issue. 5. He was successful implementing the new security protocols.
6. The document was shared securely an encrypted platform.
7. The team logged in the shared workspace platform to collaborate.
8. The request was denied lack of proper authorization.
9. The confidential files were stored an external hard drive.
7. The team logged in the shared workspace platform to collaborate.  8. The request was denied lack of proper authorization.  9. The confidential files were stored an external hard drive.  10. She worked tirelessly the user interface design.
12. Match the sentences in Column A with the appropriate preposition from Column B.
Column A:
<ol> <li>The software was launched a global audience.</li> <li>The meeting was scheduled 3 PM sharp.</li> </ol>
3. The updates were received email.
4. Collaboration took place multiple departments.
5 The announcement was made social media channels
6 The analysis was conducted a secure environment
6. The analysis was conducted a secure environment. 7. The backup files were encrypted safety. 8. The access was granted administrative permissions. 9. The data breach occurred negligence.
8 The access was granted administrative nermissions
9. The data breach occurred negligence.
10. The final decision was made the CEO.
Column B:
a. via
b. at
c. through
d. among
e. under
f. because of
g. through
h. with
i. by
j. on
13. Find and correct the errors in the following sentences.
<ol> <li>The backup was stored on an secure server.</li> <li>She worked hardly to complete the project on time.</li> <li>The files were send through email yesterday.</li> <li>The meeting has been scheduled at 2:30 PM.</li> <li>The updates was received by all team members.</li> <li>The project manager divided the tasks among the three team.</li> </ol>

- 7. The server is currently under maintenance since this morning.
- 8. She collaborate with the design team on the new interface.
- 9. The data breach happen due to a weak password.
- 10. The training sessions were conducted through online platforms.

# 14. Write sentences using the correct preposition.

<ol> <li>The firewall blocked the access</li> </ol>	an unauthorized IP address.
2. He saved the presentation slides	the shared drive.
3. The system went down	a power surge.
4. They collaboratedth	e IT department on the project.
5. Access to the building is restricted	d employees only.
6. The announcement was made	the internal communication platform.
7. The data was retrieved	the backup system.
8. The remote team logged in	video conferencing software.
9. The troubleshooting guide was av	ailable the support website.
10. The file was accidentally deleted	the shared folder.

# 15. Choose the correct option to complete the sentences.

- 1. The policy was updated (on/at) the beginning of the year.
- 2. The file was saved (in/on) the desktop.
- 3. The project team worked (among/with) external consultants.
- 4. The system rebooted (by/because of) a scheduled maintenance.
- 5. The operation was successful (under/with) the guidance of the technical lead.
- 6. The emails were sent out (through/into) a bulk mailing system.
- 7. The incident was reported (via/among) the official communication channel.
- 8. The software was developed (on/through) a collaborative framework.
- 9. The meeting was held (at/on) headquarters.
- 10. The team prepared for the presentation (with/for) great enthusiasm.

#### 16. Rewrite the following sentences using the correct prepositions.

- 1. The report was submitted on the manager's desk.
- 2. The audio files were shared into the cloud drive.
- 3. The request was approved at the team leader.
- 4. The documents were printed under the office printer.
- 5. The training session was scheduled on 10 AM.
- 6. The project was delayed because of a unexpected issue.
- 7. The team logged on the shared workspace platform.
- 8. The issue was resolved via a technical fix.
- 9. The announcement was made among the entire organization.
- 10. The updates were sent with the internal communication tool.

17. Write down your opinion about how the Internet has changed art and creative expression. Use real examples. Word count: 160–200 words.

# UNIT 17. Studying

#### TASKS:

# 1. Read the text and briefly write its meaning.



#### **Online Studying**

Online studying, also known as e-learning, has revolutionized the way education is delivered and accessed. With the rapid advancement of technology, the Internet has become a vast repository of knowledge accessible to anyone with an Internet connection. Online studying encompasses a wide range of educational activities conducted over the Internet, from traditional courses offered by universities to self-paced tutorials and interactive learning platforms.

One of the key advantages of online studying is its flexibility. Students can access course materials and lectures at their own convenience, allowing them to balance their studies with work, family commitments, or other responsibilities. This flexibility also extends to the pace of learning, as students can progress through courses at their own speed, revisiting material as needed or accelerating their progress if they grasp concepts quickly.

Another benefit of online studying is its accessibility. With online courses, geographical barriers are virtually eliminated, allowing students from around the world to access high-quality education from top institutions. This opens up new opportunities for

individuals who may not have access to traditional educational resources due to factors such as location, disability, or financial constraints.

Online studying also promotes collaboration and interaction among students and instructors. Through discussion forums, video conferencing, and other online tools, students can engage with peers and instructors, share ideas, and collaborate on projects regardless of physical distance. This collaborative learning environment fosters critical thinking, problem-solving skills, and a sense of community among participants.

Furthermore, online studying often incorporates multimedia elements such as videos, animations, simulations, and interactive exercises, making learning more engaging and effective. These multimedia resources can cater to different learning styles and preferences, allowing students to explore concepts through multiple modalities and enhance their understanding.

However, online studying also presents challenges and considerations. Students must be self-disciplined and motivated to succeed in an online learning environment, as they are responsible for managing their time effectively and staying on track with coursework. Additionally, reliable internet access and access to appropriate technology are essential for participating in online courses, which may pose barriers for some individuals.

Despite these challenges, online studying continues to grow in popularity and prominence, offering a flexible, accessible, and engaging approach to education that complements traditional learning methods. As technology continues to evolve, the potential for online studying to transform education and expand access to learning opportunities around the globe remains vast.

# 2. Answer these questions.

	es online studying promo	te collaboration among students and
tors?		
What cl	allenges and consideratio	ons are associated with online studying?

5) What role does technology play in facilitating online studying?
3. The sentence is True or False.
<ol> <li>Online studying offers flexibility in terms of accessing course materials and lectures at one's convenience.</li> <li>Online studying promotes collaboration and interaction among students and instructors through various online tools.</li> <li>The text mentions that reliable internet access and access to appropriate technology are essential for participating in online courses.</li> <li>Online studying incorporates multimedia elements such as videos, animations, and interactive exercises to enhance the learning experience.</li> <li>Online studying has revolutionized the way education is delivered and accessed, thanks to rapid technological advancement.</li> <li>The text does not explicitly mention the specific challenges associated with online</li> </ol>
o) The text does not explicitly mention the specific challenges associated with online studying.
4. Translate the following English units into Ukrainian.
1) Hit the books- 2) Burning the midnight oil- 3) Put one's nose to the grindstone- 4) Cram session- 5) Learn the ropes-  5. Give synonyms to the words in bold type.  1) Attach your file or drag it here.
2) You must first <b>upload</b> them to your computer.
3) This is the <b>record</b> of our stay there.
4) But the silence was the only <b>reply</b> .
5) Users can also <b>mute</b> notifications from the apps for up to eight hours.

6. Translate Ukra	ainian to English:		
•Прокрутити в	згору/вниз/поперек		
•Відкрити			
<ul><li>Надіслати</li></ul>			
∙Документ			
●Мікрофон			
<ul><li>Колонки</li></ul>			
7 Evalain this w	and in English without using	the given would itself	
	ord in English without using		
Eurphones	S		
• Folder			
• Link-			
	ks with the necessary words	in the box.	
	ks with the necessary words sign up to to log on to	in the box.  headset post a comment	
8. Fill in the blan  join invite  1) I received an 2) Don't forget to 3) Remember 4) Make sure your	sign up to to log on to  to the virtual conference an the online workshop bef the webinar platform using	headset post a comment d immediately accepted it.	udio
8. Fill in the blan  join invite  1) I received an 2) Don't forget to 3) Remember 4) Make sure your clearly.	sign up to to log on to  to the virtual conference an the online workshop bef the webinar platform using	headset post a comment  d immediately accepted it. fore all the slots are taken. your username and password. the online meeting to hear the a	udic

• Virus –
• Code –
• Bug –
• Equipment –
• Backup –
• Program –
• Electricity –
• Update –
<ul> <li>Technology –</li> <li>Email – (C when referring to individual messages; U when referring to the</li> </ul>
system)
10. Choose the correct answer for each sentence.
1. I don't have much to give.
a) advices
b) advice
c) advises
2. She bought two of milk.
a) cartons
b) milk
c) waters
3. Can you feel the in the room?
a) chair
b) tension
c) paper
4. He has many good
a) suggestion
b) suggestions c) suggest
5. I don't have enough to buy a new car.
a) moneys
b) coins
c) money
6. Please be quiet and respect our
a) peace
b) pizzas
c) times
7. There's too much in this soup.
a) salt
b) salts
c) salty
8. She showed great during the test.
a) strength

b) stone			
c) street			
9. We need to buy some new for the living room.			
a) furniture			
b) furnitures			
c) furniturings			
10. That's the best I've ever received!			
a) informations			
b) information			
c) inform			
11.He handed me three			
a) homework			
b) homeworks			
c) assignments			
12. We talked about our future and our			
a) hopes			
b) books			
c) clouds			
13.I'd like a cup of with no sugar.			
a) coffees			
b) coffee			
c) coffeeness			
14.She had a lot of but no experience.			
a) enthusiasm			
b) laptops			
c) headphones			
15. We had a long about politics.			
a) chat			
b) chats			
c) chattings			
11. Choose the correct word to complete each sentence.			
<b>,</b>			
❖ He is very about starting his new job. (enthusiastic / enthusiasm /			
enthusiast)			
The of the event made everyone excited. (announcement / announce			
/ announcing)			
• We talked about our plans for the weekend. (briefly / brief / brevity)			
❖ She has a lot of for organizing events. (potential / potentials /			
potentially)			
The company its customers with excellent service. (provide /			
provides / providing)			
They decided to the meeting until next week. (postpone / postpones			
/ postponing)			

The solution was easier than expected. (suggest / suggestion / suggested)  Technology makes communication accessible than ever. (more / most / much)  He understanding the new software. (struggle / struggles / struggling)  The was clear and precise. (response / respond / responding)  12. Find and correct the mistakes in the sentences below.  She enjoy to play tennis every weekend. They was discussing about the new project yesterday. I doesn't like to eat spicy food. The informations he gave was very useful. Everyone were excited to attend the conference. We speaks English fluently in our workplace. The team has been work on the project for two months. The technology have changed the way we communicate. He didn't knew how to solve the problem. The book was interesting, but the ending was disappointed. The movie were highly recommended by critics. A discussion were held between the managers and employees. They enjoys spending time with their friends during weekends. The emails was sent to all the members yesterday. She have been working in this company for five years.  13. Fill in the blanks with the correct form of the word in brackets.  He (choose) to be part of the team because of his expertise. The new manager has (implement) several strategies to improve productivity.  She (focus) on completing the report before the deadline. The meeting was (schedule) for 3 p.m. tomorrow. They (develop) a creative solution to the problem. The participants (schedule) for 3 p.m. tomorrow. They (develop) a creative solution to the problem. The participants (schedule) for 3 p.m. tomorrow. They (develop) a creative solution to the problem. The participants (schedule) for 3 p.m. tomorrow. They (develop) a creative solution to the problem. The participants (schedule) for 3 p.m. tomorrow. They (develop) a creative solution to the problem. The team members were (assign) their roles and responsibilities. Communication s		
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The company (introduce) a new product last month.	•	We (propare) sneaking English daily to improve our fluency
(included) a few product last moral.	•	The company (introduce) a new product last month
• The proposal was (approve) by the board members	•	The proposal was (approve) by the board members

# 14. Complete the sentences with the correct form of the verb in parentheses.

She \_\_\_\_\_ (organize) the event with precision and care.
The company \_\_\_\_ (expand) its operations worldwide.
They \_\_\_ (discuss) the proposal during the meeting.
The participants \_\_\_ (attend) the workshop on communication skills.
We \_\_\_\_ (develop) innovative solutions to solve complex problems.
He \_\_\_\_ (submit) his thesis before the deadline.
The new policy was \_\_\_\_ (implement) effectively last year.
The team members \_\_\_\_ (collaborate) on a challenging project.
Effective leadership \_\_\_ (inspire) others to reach their potential.

# 15. Rewrite each sentence in the passive voice.

- ❖ She prepared the presentation with great thoroughness.
- \* The board members approved the annual report.
- The company launched a new service in February.
- The teachers encourage students to participate actively in discussions.

They (evaluate) the outcomes of the strategy.

- \* Researchers analyzed the data to draw meaningful conclusions.
- They explored innovative ways to address the concerns.
- ❖ The city council implemented the new regulations last month.
- ❖ The students practiced their speaking skills to become fluent.
- ❖ The organizers assigned tasks to everyone in the group.
- \* Experts identified the risks associated with the new technology.

# 16. Find and correct the mistakes in the following sentences.

- They was analyzing the data to make decisions.
- We practices speaking English every day for better fluency.
- ❖ The project were completed successfully by the team.
- Communication are essential for maintaining strong bonds.
- ❖ She prepare the report with detailed attention.
- The proposal was approve by all members of the board.
- The company introduced a new product last week.
- They explores options to enhance productivity.
- ❖ We assign roles based on individual expertise.
- \* The participants shares their thoughts during the session.

# 17. Write a speech for a student conference about how the Internet helps people study and learn new skills. Word count: 160–200 words.

#### **UNIT 18. Communications**

#### TASKS:

# 1. Read the text and briefly write its meaning.



# **Emerging Technologies and Communication Security**

In today's rapidly evolving digital landscape, emerging technologies play a crucial role in enhancing communication security. As cyber threats become increasingly sophisticated, leveraging advanced technologies is essential to safeguard sensitive information and ensure secure communication channels.

One of the most promising emerging technologies for communication security is blockchain. Originally developed for cryptocurrencies, blockchain's decentralized and immutable nature makes it an excellent tool for secure communication. By utilizing cryptographic hashing and distributed ledger technology, blockchain ensures that data cannot be tampered with or altered without detection. This makes it highly effective for securing communications and transactions, providing an extra layer of trust and transparency.

Artificial Intelligence (AI) and Machine Learning (ML) are also transforming communication security by enabling more proactive and adaptive defenses. These technologies can analyze vast amounts of data to identify patterns and anomalies that may indicate cyber threats. AI-powered systems can automatically detect and respond to suspicious activities, such as phishing attempts or unauthorized access, significantly reducing response times and mitigating potential damage.

Quantum cryptography is an emerging field that promises to revolutionize communication security through the principles of quantum mechanics. Quantum Key Distribution (QKD) is a technique that uses quantum bits (qubits) to create unbreakable encryption keys. Any attempt to intercept or measure the qubits alters their state, making eavesdropping detectable and ensuring that the communication remains secure.

Secure Multiparty Computation (SMC) is another emerging technology that enhances communication security by allowing multiple parties to jointly compute a function over their inputs while keeping those inputs private. This technology is particularly useful in scenarios where sensitive data needs to be shared and processed without revealing the data to other parties involved.

Zero Trust Architecture is a security model that assumes no communication, whether internal or external, is automatically trusted. It requires continuous verification of users and devices, ensuring that only authenticated and authorized entities can access sensitive information. This approach minimizes the risk of breaches by strictly enforcing security policies and monitoring all communication activities.

As these emerging technologies continue to develop and mature, they will play an increasingly vital role in protecting communication channels and ensuring the security of sensitive information. By staying informed and leveraging these advanced tools, organizations can build more robust defenses against the ever-evolving landscape of cyber threats.

# 2. Answer these questions.

secur	What are the key advantages of using blockchain technology for communication ity?
	2) How do Artificial Intelligence (AI) and Machine Learning (ML) contribute to ting and responding to cyber threats?
	B) What is Quantum Key Distribution (QKD) and how does it enhance nunication security?
and w	4) In what scenarios is Secure Multiparty Computation (SMC) particularly useful, vhy?
	5) What is the principle behind Zero Trust Architecture and how does it help nt unauthorized access?

#### 3. The sentence is True or False.

- 1) Blockchain technology ensures data security by allowing data to be tampered with without detection.
- 2) Artificial Intelligence (AI) and Machine Learning (ML) can automatically detect and respond to suspicious activities in communication security.
- 3) Quantum Key Distribution (QKD) uses traditional encryption methods to secure communication.
- 4) Secure Multiparty Computation (SMC) allows multiple parties to compute a function over their inputs while keeping the inputs private.
- 5) Zero Trust Architecture assumes that all internal communications are automatically trusted.
- 6) Emerging technologies are not considered effective in enhancing communication security against cyber threats.

4. Translate the following English units into Ukrainian.

1) Rapidly evolving digital landscape-

	2) Leveraging advanced technologies-
	3) Decentralized and immutable nature-
	4) Proactive and adaptive defenses
	5) Revolutionize communication security
	6) Minimize the risk of breaches
	5. Give synonyms to the words in <u>bold</u> type.
	1) <b>Blockchain</b> technology ensures data cannot be tampered with.
amo	2) Artificial Intelligence (AI) and Machine Learning (ML) can analyze <b>vast</b> punts of data.
	3) Quantum cryptography promises to <b>revolutionize</b> communication security.
com	4) Secure Multiparty Computation (SMC) allows multiple parties to jointly npute a function while keeping inputs <b>private</b> .

5) Zero Trust Architecture requires continuous verification of users and devices.

	<ul><li>Блокчейн</li></ul>			
	Безпека			
	• Штучний			
	• Дані			
	Квантовий			
	• <i>Шифруванн</i> я			
	• Перевірка			
	xplain this word in En			
	• Immutable			
	Cryptography			
	• Anomalies			
8. Fi	ill in the blanks with t		words in the box.	detect
			•	
	tificial Intelligence can	quickly	vast amounts of	data to identify
potential	threats.			
2) Qu	antum cryptography air	ns to	_ unbreakable encry	otion keys.
	cure Multiparty Computile keeping the inputs p		parties toa	function over their
inputs wi	ine keeping the inputs p	nivate.		
<b>9.</b> Fi	ill in: THE, A, AN or	_ (no article)	•	
1.	He installed	antivir	is program to protect	his files.
2.	They experienced _	unex	pected error during th	ne system update.
3.	She works as	IT co	nsultant for a major to	ech company.
4.	We need to reboot _	s	erver before applying	g the patch.
5.	He's writing	code to	automate routine ta	sks.
6.	Cloud computing is	impo	ortant part of modern	IT infrastructure.
7.	Did you read	docume	entation before instal	ling the software?

6. Translate Ukrainian to English.

8.	I have meeting with the cybersecurity team at 2 p.m.		
9.	They upgraded operating system last week.		
10.	Encryption is essential for securing data.		
11.	The intern is testing application prototype today.		
12.	You'll find USB port on the left side of the laptop.		
13.	She has experience working with both Linux and Windows		
environr	nents.		
14.	We use cloud service that complies with GDPR.		
15.	He's looking for solution to reduce system latency.		
10. Fill	in: THE, A, AN or _ (no article).		
1.	She installed antivirus program to protect her system.		
2.	He's developing app that uses machine learning.		
3.	I downloadedupdate for my operating system.		
4.	We need to access server to retrieve the backup.		
5.	HTML is a markup language used for creating web pages.		
6.	We launched new version of the website yesterday.		
7.	He's working as IT support specialist.		
8.	You can access your files through cloud platform.		
9.	The team is building AI model for cybersecurity.		
10.	They implemented system to track user activity.		
11.	JavaScript code you wrote contains a syntax error.		
12.	She used open-source tool to encrypt the data.		
13.	He's responsible for maintaining database infrastructure.		
14.	We had to restart network router after the power outage.		
15.	Cybersecurity is becoming crucial aspect of modern business.		
11. Fill in the blanks with the most appropriate word. Each blank requires a specific determiner.			
1. I do	on't have time to complete the project before the deadline.		

2. He bought interesti	ng book about cybersecurity yesterday.	
3. information you se	nt me was extremely helpful.	
4. My colleague didn't give me	explanation for his absence. meeting to discuss the new project. ft in the fridge, so I'll need to buy some.	
5. We should arrange	meeting to discuss the new project.	
6. There isn't milk let	ft in the fridge, so I'll need to buy some.	
7. She has plans to tra 8. Can you lend me n	evel abroad next year.	
8. Can you lend me	noney until Laget paid?	
9 neonle helieve that A	I will transform the tech industry completely	
10. I don't need help	with this; I can manage it on my own.	
12. Rewrite the sentences using th	e correct form of the words in brackets.	
1. The database needs (update)	regularly. than the previous one we used.	
2. This tool is (effective)	than the previous one we used.	
3 (Connect) to the n	network is essential for tile sharing	
4. The company is (develop)	a new AI-powered platform.	
5 Many (specialize)	tools are available for cybersecurity experts	
6. The code will need some (mod	ify) before it works correctly	
7 She is (responsible)	a new AI-powered platform.  tools are available for cybersecurity experts ify) before it works correctly.  for maintaining the server. important part of the onboarding process.	
8 (Train) staff is an	important part of the onboarding process	
9. This file takes (long)	to described then the others	
10. The management and a severe	to download than the others.  I (adjust) to improve system speed.	
10. The programmer made severa	ii (adjust) to iniprove system speed.	
13. Find the mistakes in the follow	ving sentences and correct them.	
1. I don't have no idea how to fi	x this error.	
2. There is much tools available		
3. Each of the team members ha		
4. He didn't gave us any detailed instructions.		
<ul><li>5. They are working in a project on cloud security.</li><li>6. Why don't we schedule the meeting for last Friday?</li></ul>		
7. There's any way to recover the		
8. She didn't knew the system update had failed.		
9. None of the technicians were available to help us.		
10. I am thinking to upgrade my	computer this weekend.	
14. Match the sentence beginnings	s with their appropriate endings.	
1. The system will shut down	a. we discovered a critical error.	
2. If the code doesn't compile		
3. We should inform the users	c. without consulting the project	
4. While analyzing the bug		
report	d. during off-peak hours to minimize	
5. This software update seems	downtime.	
J. This software update seems	downthine.	

6. When the installation is e. if you click on the red button.
complete...

7. The network runs smoothly...

8. In case of a data breach...

9. Unless you save your work...

10. They decided to implement the change...

i. as long as no updates are being installed.
j. you'll need to debug it further.

#### 15. Complete the sentences with the correct preposition or article.

1. The team is working	a grou	ındbreaking technology project
2. This software is designed	ed specifically	beginners.
3. The IT specialist fixed to	the issue	using remote access.
4. He's proud	the work he's d	one on the app.
5. They are experts	cybersecu	rity and data protection.
6. You'll need to log	the syste	em before accessing the files.
7. I'm interested	learning mor	e about coding.
8. She succeeded	solving the	complex algorithm.
9. We're meeting	3 PM to rev	riew the tasks.
10. The files are stored	the co	mpany's internal server.

# 16. Combine the following sentences using relative pronouns or conjunctions.

- 1. The developer created a program. The program can detect malware.
- 2. She's the manager. She will introduce the new policies.
- 3. There's an error in the code. The error is causing the system to crash.
- 4. They postponed the meeting. The meeting was supposed to happen yesterday.
- 5. This is the tool. It makes encryption easier.
- 6. The technician fixed the router. The router was not working properly.
- 7. We need to hire a specialist. The specialist understands cloud computing.
- 8. This is the software. Many companies use it for data analysis.
- 9. He's the engineer. He designed the new database.
- 10. I bought a laptop. The laptop has a touch screen.

# 17. Write an article on how online communication has changed friendships and teamwork in IT. Word count: 150–180 words.

#### UNIT 19. Video games

#### TASKS:





#### Horizon Forbidden West

Diving into "Horizon Forbidden West" is like stepping into a sprawling sandbox where the boundaries of reality blur with the edges of an epic digital playground. This sequel to the critically acclaimed "Horizon Zero Dawn" amps up the action and immersion, inviting players to once again don the role of Aloy, our badass huntress, in her quest to unravel the mysteries of a post-apocalyptic world teeming with robotic wildlife.

From the get-go, "Horizon Forbidden West" throws you into the deep end with jaw-dropping visuals and a storyline that keeps you on the edge of your seat. The game's open world is a gamer's paradise, filled with intricate environments, ranging from dense jungles to arid deserts, and treacherous underwater biomes. The attention to detail is next level, making every corner of the map worth exploring.

The combat system is where the game shines. It's not just about spamming buttons; you've got to strategize, craft ammo, and set traps, making every encounter a test of skill and wit. Whether you're taking down a Thunderjaw with a well-placed tripcaster or stealthily hacking a Ravager to turn it against its kin, the gameplay mechanics are fluid and satisfying.

Loot is king in "Horizon Forbidden West." Scavenging parts from fallen machines and upgrading your gear is crucial for survival. The game's RPG elements are deep enough to keep you grinding for that perfect build, whether you're min-maxing your stats or just looking to deck out Aloy in the sickest armor sets. And let's not forget the skill tree, which offers a plethora of options to tailor Aloy's abilities to your playstyle.

Exploration is also dialed up to eleven. With the addition of the Shieldwing glider and underwater traversal, getting around the massive map is a breeze. The thrill of discovering hidden ruins, solving ancient puzzles, and uncovering lore-rich collectibles adds layers of depth to the gameplay. Plus, the side quests are no mere fetch missions — they're packed with narrative punch, giving you a chance to dive deeper into the world's rich lore and meet a cast of unforgettable NPCs.

Multiplayer might not be a thing here, but the community around "Horizon Forbidden West" is thriving. From Reddit threads dissecting lore to YouTube channels offering pro tips and epic gameplay montages, there's a sense of camaraderie among players. Sharing strategies, trading screenshots of breathtaking vistas, and discussing theories about the game's plot twists are all part of the experience.

In short, "Horizon Forbidden West" isn't just a game; it's a journey, an odyssey through a meticulously crafted world that begs to be explored. Whether you're a veteran of the first game or a newcomer, there's something here to captivate every type of gamer. So gear up, dive in, and get ready to lose yourself in one of the most immersive gaming experiences out there. Game on!

	What role does Aloy play in "Horizon Forbidden West"?	
	How does the combat system in "Horizon Forbidden West" differ from ty mashing gameplay?	ypical
3	What are some of the environments players can explore in the game?	
	How do the RPG elements, like loot and skill trees, enhance the gamence in "Horizon Forbidden West"?	neplay
	What makes the side quests in "Horizon Forbidden West" more engaging fetch missions?	g than

#### 3. The sentence is True or False.

2. Answer these questions.

1) In "Horizon Forbidden West," players primarily explore urban environments filled with skyscrapers and cityscapes.

- 2) The combat system in "Horizon Forbidden West" requires strategic thinking, including crafting ammo and setting traps.
- 3) Aloy uses the Shieldwing glider and underwater traversal to navigate the game's expansive map.
- 4) Multiplayer is a major feature in "Horizon Forbidden West," allowing players to team up and complete missions together.
- 5) The side quests in "Horizon Forbidden West" are narrative-driven and offer a deeper understanding of the game's lore.
- 6) The community around "Horizon Forbidden West" is active, with players sharing strategies and discussing plot theories online.

4. Translate the following English units into Ukrainian.

	1) Jaw-dropping visuals-	
1) Jaw-dropping visuals		
3) Next level- 4) Fluid and satisfying		
	5) Dialed up to eleven-	
	6) Dive deeper into the world's rich lore	
5.	Give synonyms to the words in <u>bold</u> type.	
	1) <b>Post-apocalyptic</b> world features a setting where society has collapsed.	
	2) Combat mechanics in the game require strategic thinking.	
	3) The game includes various methods of <b>traversal</b> , such as gliding and swimming.	
	4) <b>Upgrading</b> your gear is crucial for surviving tougher enemies.	
	5) The <b>skill tree</b> allows players to customize Aloy's abilities.	
6.	Translate Ukrainian to English:	
	• Постапокаліптичний	

Пересування-\_Оновлення-

<ul><li>Дерево навичок</li></ul>
<ul> <li>Захоплюючий</li></ul>
• Сандбокс
7. Explain this word in English without using the given word itself.  • Sprawling
Meticulously
• Camaraderie
8. Fill in the blanks with the necessary words in the box.
sandbox crafting immersion lore min-maxing mechanics
"Horizon Forbidden West" offers a vast experience where players can explore and interact with the world freely.     A key aspect of the game is ammo and setting traps to strategize in
combat.
3) The game's detailed environments and storyline contribute to its high level of for players.
4) Uncovering hidden ruins and solving puzzles helps players dive deeper into the
game's rich  5) Players can spend hours their stats to create the perfect build for Aloy.
9. Complete the sentences with a modal verb from the box below. Sometime more than one answer is possible.
may – might – can – can't – should – shouldn't – must – have to – has to –
needn't – mustn't – don't have to – doesn't have to
1. You install the latest drivers to ensure compatibility.
2. She be at the data center now — her car is in the parking lot.
3. Users change their passwords every 90 days for security.
4. You share your admin credentials with anyone. It's strictly prohibited.
5. He know the answer — he designed the system himself.
6. They attend the webinar if they already completed the training.

7.	You	restart your computer after installing that update. It will apply	
	automatically.		
8.	This error	be due to a corrupted file or missing dependency.	
9.	We	upgrade the server soon; performance is becoming an issue.	
10.	The developer	test the code before committing any changes.	
11.	That solution _	work, but we should run more tests to be sure.	
12.	She	_ log in remotely using her credentials and a secure token.	
13.	You t	be careful when modifying system files — it could crash the OS.	
14.	Не	_ access the files because his account was deactivated.	
15.	The team	finish the task today, or the release will be delayed.	
	ıld, etc.). ❖ She	be the one who left the door unlocked. I saw her leaving last	
		be the one who left the door unlocked; I saw her leaving last.	
		take an umbrella with you; the weather report hinted at rain.	
•	They	know the answer if we explain it clearly.	
•	• He	have missed the meeting because his train was delayed.	
•	You	submit the assignment by Friday to meet the deadline.	
•	This package	e arrive tomorrow, but there is a slight chance of delay.	
•	• We	call them when we get to the venue.	
•	The manage	r approve this request before we proceed.	
•	That comme	ent offend them, so please think twice before posting it.	
•	The artist	finish the painting by next week.	
	11. Choose th	ne correct modal to complete each sentence.	
	You (should	/can) always wear sunscreen when going outside.	
	She (must/might) be late because of traffic.		
	They (can/may) borrow the book if they return it on time.		
	You (might/	must) finish this task today; it's urgent.	

- Ye (could/may) go to the park if the weather improves.
- ❖ He (should/can't) say that; it's rude.
- ❖ This (must/might) be the right way to solve the problem.
- ❖ You (may/should) try restarting the system to fix the issue.
- ❖ She (can/mustn't) play loud music during working hours.
- They (might/should) arrive early to secure seats.

### 12. Rewrite the sentences using modals to express different levels of certainty.

- ❖ It's possible she forgot the meeting. (might)
- ❖ I am sure they finished the project yesterday. (must)
- There is a chance he will come to the party. (may)
- ❖ It's not possible for them to know the answer. (can't)
- ❖ He is allowed to leave early today. (may)
- ❖ You are required to wear a helmet on the construction site. (must)
- \* They are advised to check their emails daily. (should)
- ❖ It's unlikely she will win the competition. (might not)
- ❖ You have permission to use the conference room. (can)
- \* It's obligatory for everyone to attend the safety briefing. (must)

# 13. Find and correct the grammatical errors in the following sentences (modals included).

- ❖ She can't goes to the store without her wallet.
- ❖ He must to submit the report by Friday.
- ❖ They mights be late because of the heavy traffic.
- ❖ You should not to leave the computer unlocked.
- ❖ We can't have arrive early; the event starts at 8 PM.
- ❖ She must has permission to access the files.
- \* They should putted away their tools after using them.
- ❖ You can borrow the book if you will return it tomorrow.
- ❖ He may to know the answer to the problem.
- \* We mights need to call technical support for assistance.

# 14. Complete the sentences using modals to express advice, necessity, or possibility.

***	Y ou	prepare for the test thoroughly; it's challenging.
*	They	call ahead to confirm their reservation.
*	We	leave now; traffic is getting worse.
*	She	apologize for the mistake before it escalates.
*	Не	finish his homework before going out to play.
*	You	wear formal attire for the interview.
*	They	consider the consequences before taking action.
*	We	check the system regularly to ensure it's running smoothly.
*	She	attend the meeting; her input is crucial.
*	You	ask for help if you're struggling with the task.
15.	. Fill the bla	anks with correct modals based on the context provided.
*	You	bring your passport for international travel.

*	He	practice more to improve his performance.
*	They	wait here until the next train arrives.
*	We	try the new Italian restaurant downtown.
*	She	have left the door open; it wasn't locked when I arrived.
*	You	ask before borrowing other people's belongings.
*	Не	fix the error in the report before submission.
*	They	be able to solve the puzzle; they've been practicing.
*	We	contact them about the delay immediately.
*	She	know the answer; she's good at math.

#### 16. Combine sentences using modals.

- ❖ It's raining heavily. We should stay indoors. (combine with 'might')
- ❖ He has extra tickets. He can invite his friends. (combine with 'may')
- ❖ The system crashed. Someone must have modified the files. (combine with 'must')
- ❖ She has spare time. She can help us with the decorations. (combine with 'could')
- ❖ He made an error. He should correct it before submitting. (combine with 'might')
- They are not at home. They may have gone to visit relatives. (combine with 'may')
- ❖ You haven't eaten yet. You should grab a snack. (combine with 'must')
- ❖ The weather is cold. You must wear a coat. (combine with 'should')
- ❖ He is late. He might miss the bus. (combine with 'might')
- The printer is broken. You must fix it before printing the document. (combine with 'should')

17. Write an opinion essay about whether video games can be educational. Give at least two examples. Word count: 170–200 words.

# UNIT 20. Cryptocurrencies TASKS:





#### Basics

Alright, let's break down cryptocurrencies in the simplest way possible, without getting too deep into the technical weeds. Imagine you have a stash of digital coins that you can use to buy stuff or trade, just like cash, but it's all online and not controlled by any government or bank. That's the gist of cryptocurrencies!

First up, let's talk about **Bitcoin**, the big daddy of all cryptocurrencies. Think of Bitcoin as digital gold. It was the first cryptocurrency and still the most well-known. People use it for transactions and as an investment. Bitcoin is powered by **blockchain** technology, which is like a digital ledger that records all transactions across a network of computers. This ensures everything is transparent and secure.

Now, **blockchain** might sound complex, but it's really just a chain of blocks. Each block contains a list of transactions. When a block is filled, it's added to the chain. Picture a digital notebook where every page is a block, and the whole notebook is the blockchain. Once something is written in the notebook, it can't be erased or altered.

Another cool term is **mining.** No, we're not talking about digging for gold. In the crypto world, mining is the process of solving complex math problems to verify transactions and add them to the blockchain. Miners use powerful computers to do this and get rewarded with new coins. It's like a digital treasure hunt!

Then there are **wallets**. Just like the wallet in your pocket holds your cash and cards, a crypto wallet holds your digital coins. There are different types of wallets, like hot wallets (connected to the internet) and cold wallets (offline, more secure). Think of hot wallets as your regular wallets and cold wallets as a safe at home.

Let's not forget **altcoins**. These are any cryptocurrencies other than Bitcoin. Some popular altcoins are Ethereum, Litecoin, and Ripple. Each has its own unique features.

For instance, Ethereum isn't just a currency; it's a platform for building decentralized apps (dApps). It's like a Swiss Army knife of the crypto world.

Another buzzword is **HODL**, which means "Hold On for Dear Life." This term came from a misspelled forum post and now it's a mantra for crypto enthusiasts who believe in keeping their coins through market ups and downs instead of selling when prices drop.

**FOMO** (Fear Of Missing Out) is also big in the crypto community. It's the anxiety that comes when you see the value of a cryptocurrency skyrocketing and you feel the urge to buy in so you don't miss out on potential gains.

Lastly, there's **DYOR** (Do Your Own Research). This is crucial advice in the crypto space. It means you should always investigate and understand what you're investing in rather than just following the hype. The crypto market can be a wild ride, so it's important to know what you're getting into.

So there you have it – a crash course in cryptocurrencies with all the basic terms and a bit of slang. Remember, the crypto world is full of ups and downs, so buckle up and enjoy the ride!

2. Answer these questions.

3) W	That is the process of mining in the context of cryptocurrencies?	
4) W	/hat are the differences between hot wallets and cold wallets?	
5) V nuni	What does the term HODL stand for, and what does it signify in thity?	he c

#### 3. The sentence is True or False.

1) Digital gold-

- 1) Bitcoin is often referred to as digital gold because it was the first cryptocurrency and remains the most well-known.
- 2) Blockchain technology involves a centralized ledger that is controlled by a single entity to ensure transparency and security.
  - 3) In the context of cryptocurrencies, mining refers to digging for gold.

4. Translate the following English units into Ukrainian.

- 4) Hot wallets are connected to the internet, while cold wallets are offline and considered more secure.
- 5) Altcoins refer to any cryptocurrencies other than Bitcoin, including Ethereum and Litecoin.
- 6) FOMO (Fear Of Missing Out) describes the anxiety of missing potential gains when the value of a cryptocurrency is rising.

	1) Digital gota-
	2) Complex math problems
	3) Digital treasure nunt
	4) <i>HODL</i> -
	5) FOMO
	6) DYOR
5.	Give synonyms to the words in <u>bold</u> type.
	1) Bitcoin is often referred to as <b>digital</b> gold.
	2) Blockchain technology involves a digital <b>ledger</b> that records transactions.
	3) Miners use powerful computers to <b>verify</b> transactions.
	4) Hot wallets are connected to the <b>internet</b> , making them easily accessible.
	5) The crypto market can be a <b>wild</b> ride, with frequent ups and downs.
6.	Translate Ukrainian to English:
	• Біткоїн-

•	Блокчейн					
•	Гаманець					
•						
•	Альткоїн-					
•	Занурення-					
•	Стратегія-					
	_	in English withou				
•	Decentralized					
•	Immutable					
•	Cryptographic					
8. F		with the necessary				
	blockchain altcoins	cryptocurrency HODL	wallet FOMO	mining DYOR	transaction ledger	
1) E	Bitcoin is a popula	r type of ı	ised for dig	gital transac	tions.	
2)	technolo	gy ensures that all	transaction	ns are reco	rded in a secur	re and
	ent manner.					
3) <i>A</i>	A crypto	is used to store and	manage yo	our digital c	coins.	
		process of verifying	ng transac	tions and	adding them	to the
blockcha	in.					
5) .	Ethereum and Li	tecoin are example	es of	that h	nave unique fe	atures
compare	d to Bitcoin.	41	1 1	1.11	4 1 2	1 .
		their assets be	eneve in no	olding onto	tnem despite i	narket
fluctuation		the anxiety of miss	ina aut an e	natantial aa	ing ryb on the ry	lua of
	currency rises.	the anxiety of miss	ing out on p	potentiai ga	illis when the va	ilue oi
a cryptot 2) 1	In the crupto wo	rld, is cr	ucial advic	a manning	r vou should s	lwove
investiga	ite and understand	what you're invest	ing in.	c, meaning	g you should a	nways
9. (	Complete the ser	itences with an ap	propriate	conjuncti	on or linking	word.
Use: alth	ough, because, so	o, however, and, or,	but, while,	since, ever	though, unless	5.
I stu	ıdied all night,	_ I still didn't pass	the exam.			
You	ı can use a laptop	a tablet for the	test.			
	I was tired, I con	tinued working on t	he project.			

We decided to leave early the weather was getting worse.
She loves working with data, she doesn't like coding.
he has a fast computer, he never uses it for gaming.
I can't attend the meeting I finish this report on time.
I enjoy web design, I'm also interested in cybersecurity.
He was talking on the phone checking his emails.
it was raining, we went outside to check the Wi-Fi signal.

**10.** Rewrite the sentences using impersonal structures (It is said that... / It seems that... / It appears that... / It was reported that... / It is known that... / It is believed that...).

Example: People say that artificial intelligence is dangerous.  $\rightarrow$  It is said that artificial intelligence is dangerous.

Experts believe that cloud storage is safer than local storage.

People think that this app collects too much data.

They report that the system was hacked last week.

Everyone knows that he is a talented programmer.

They say that this software is very user-friendly.

The news reported that the virus had spread through email.

People assume that only young people play video games.

Some researchers believe that AI will change education.

Users complain that the platform is not reliable.

Everyone says that the course is helpful for beginners.

# 11. Rewrite the sentences by transforming them into passive voice while preserving their meaning.

- 1. People believe that the Internet has changed communication forever.
- 2. Experts report that social media influences beauty standards.
- 3. Studies show that online platforms can cause body image issues.
- 4. Researchers confirm that digital collaboration tools improve efficiency.
- 5. Celebrities share photos that set unrealistic beauty trends.
- 6. Users complain that some apps track too much personal data.
- 7. People think that young individuals are the primary users of social media.
- 8. Analysts state that online education is becoming increasingly popular.
- 9. Authorities warn that viruses spread rapidly through email systems.
- 10. Critics argue that digital content often lacks authenticity.

#### 12. Identify the mistakes in the sentences below and correct them.

- 1. Internet have revolutionized how people communicate.
- 2. The emails was sent to the wrong person.
- 3. Researchers says that online platforms could influence user behavior.
- 4. Everyone know that technology evolves rapidly.

- 5. Social medias often promote unrealistic beauty standards.
- 6. People assumes that only teenagers use video games.
- 7. The system was hacked last week, but no datas were compromised.
- 8. Influencers shares content that impacts public perception of beauty.
- 9. Authorities warns the public about potential cybersecurity threats.
- 10. Some apps collects excessive amounts of personal information.

## 13. Complete the sentences using the correct tense of the verbs in parentheses.

- 1. The Internet (revolutionize) communication in the past two decades.
- 2. Social media platforms (become) increasingly popular among teenagers.
- 3. Celebrities (influence) beauty standards through their posts.
- 4. Researchers (study) the effects of online education since 2010.
- 5. Users (complain) about unreliable platforms for years.
- 6. Technological advancements (change) the way people work remotely.
- 7. Authorities (warn) the public about cybersecurity risks recently.
- 8. People (assume) that video games are only for young individuals.
- 9. The news (report) that the virus (spread) through email last week.
- 10. Experts (believe) that AI will transform education in the future.

#### 14. Rewrite the sentences in reported speech.

- 1. "The course is helpful for beginners," everyone says.
- 2. "The platform is not reliable," users complain.
- 3. "AI will change education," some researchers believe.
- 4. "Young people mainly play video games," people assume.
- 5. "The virus spread through email," the news reported.
- 6. "This software is user-friendly," they say.
- 7. "The system was hacked last week," they report.
- 8. "This app collects too much data," people think.
- 9. "Cloud storage is safer than local storage," experts believe.
- 10. "The Frisian language has official status," people note.

# 15. Match the sentence fragments to form meaningful sentences using appropriate grammar structures.

- A. The Internet has revolutionized...
- B. Social media platforms often promote...
- C. Emails can spread...
- D. Researchers agree that...
- E. Young people tend to...
- F. Experts warn against...

- 1. ...unrealistic beauty standards, leading to body image issues in users.
- 2. ...connect with others instantly across long distances.
- 3. ...cybersecurity risks associated with online communication.
- 4. ...team efficiency and facilitate remote work.

- G. Celebrities frequently share photos...
- H. Collaboration tools improve...
- I. Influencers impact...
- J. Apps that collect excessive personal data...
- 5. ...can compromise user privacy.
- 6. ...that set trends in beauty and aesthetics.
- 7. ...how people perceive beauty standards online.
- 8. ...the way society interacts and communicates.
- 9. ...harmful viruses that infect computers.
- 10. ...gravitate toward video games as a form of entertainment.

# 16. Make sentences, add necessary grammar, sometimes more than one answers is possible.

- 1. The Internet / revolutionize / communication / globally.
- 2. Social media platforms / influence / beauty standards / young people.
- 3. Researchers / study / effects / online education.
- 4. Apps / collect / personal data / users.
- 5. Authorities / warn / cybersecurity risks / public.
- 6. Celebrities / share / idealized images / platforms.
- 7. Emails / spread / viruses / systems.
- 8. People / assume / video games / popular / teenagers.
- 9. Experts / believe / AI / transform / education.
- 10. Users / complain / unreliable platforms / apps.

# 17. Write an informational post that explains what cryptocurrencies are and how they are used in modern online businesses. Word count: 160–200 words.

#### UNIT 21. The influence of the Internet on society

#### TASKS:

#### 1. Read the text and briefly write its meaning.



The Internet has profoundly impacted modern society, changing the way we communicate, consume media, and perceive beauty standards, while also exposing individuals to harmful content. Its pervasive influence touches many aspects of daily life, bringing both benefits and challenges.

1)
The Internet has revolutionized communication, enabling people to connect instantly
across vast distances. Social media platforms, email, and messaging apps have made it
easier to maintain relationships, share information, and collaborate on projects. These tools have transformed personal and professional interactions, making communication more immediate and accessible.

The Internet plays a significant role in shaping beauty standards, with social media and online platforms often promoting unrealistic and idealized images. Influencers and celebrities share photos and videos that set trends and influence public perception of beauty. This can lead to body image issues and pressure to conform to certain aesthetics, especially among young people.

Media addiction is a growing concern in the age of the Internet. The constant availability of information, entertainment, and social interaction can lead to excessive screen time, affecting mental health and well-being. Individuals may find themselves spending hours browsing social media, streaming videos, or playing online games, often at the expense of other activities and responsibilities.

4)			

Exposure to harmful content, such as videos or photos depicting real violence, is a major issue on the Internet. Such content can be disturbing and traumatizing, particularly for younger audiences. The prevalence of this material poses a challenge for platforms trying to balance freedom of expression with the need to protect users from harm.

In summary, the Internet has dramatically influenced society, bringing both positive changes and serious challenges. Its impact on communication, media addiction, beauty standards, and the spread of harmful content highlights the complex role it plays in modern life.

#### 2. Match the heading (A-E) to paragraphs (1-5).

- A) Communication
- B) Harmful Content
- C) Beauty Standards
- D) Media Addiction

#### 3. The sentence is True or False.

- 1) The Internet has made it easier for people to communicate instantly across vast distances.
- 2) Media addiction is not a concern in the age of the Internet, as most people use it in moderation.
- 3) Social media platforms often promote unrealistic and idealized images, influencing public perception of beauty standards.
- 4) Exposure to harmful content, such as videos depicting real violence, is a minor issue on the Internet.
- 5) The Internet has transformed personal and professional interactions, making communication more immediate and accessible.
- 6) The prevalence of harmful content online poses no significant challenges for platforms in terms of user protection.

## 4. Translate the following English units into Ukrainian.

1) excessive screen time-	
2) shaping beauty standards-	
3) idealized images	
4) profoundly impacted modern society	

### 5. Give synonyms to the words in bold type.

1) The Internet has **revolutionized** communication, enabling people to connect instantly across vast distances.

is a growing concern in the age of the Internet.
s a significant role in <b>shaping</b> beauty standards.
n promotes unrealistic and idealized images.
f harmful content online poses a <b>challenge</b> for platforms edom of expression with the need to protect users.
ian to English:
b
й
in English without using the given word itself.
1

1) The Internet has communication, making it possible for people to connect				
instantly across vast distances.				
2) Media is a growing concern in the age of the Internet, as excessive screen				
time can affect mental health.				
3) Social media often promotes and idealized images, influencing public				
perception of beauty standards.				
4) The of harmful content online poses a challenge for platforms trying to				
protect users.				
9. Complete each sentence using one of the following prepositional phrases: in				
charge of, on behalf of, in spite of, according to, in case of, by means of, in front of,				
instead of, due to, out of.				
1. The manager spoke the whole team during the meeting.				
2. We stayed indoors the heavy rain.				
3 the company policy, we must reset our passwords monthly.				
4. She solved the problem a special algorithm.				
5. The error was fixed quickly the quick response of the IT team.				
6. They installed cameras the building to increase security.				
7. his lack of experience, he got the job.				
8. I printed the report writing it by hand.				
9. I'm the new user interface design.				
10. Keep your backup drives safe system failure.				
10. Keep your backup drives sale system failure.				
10. Fill in the blanks with the correct prepositional phrase from the list –				
at risk, in favour of, in relation to, with regard to, in need of, on time, at first, for the sake				
of, under control, on the basis of.				
1. We must protect users who are of data breaches.				
2. The update was released improving security.				
3. The server crashed , but it was fixed quickly.				
4. The project was approved its long-term potential.				
5. Please send me the documents your application.				
6. The system seems to be now, but we should monitor it.				
7. He always finishes his tasks, even if they are difficult.				
8. They voted using open-source tools in the company.				
9. The charity helps people medical support.				
10 your question about the login error, we're still investigating it.				
44 T911 A 11 1 14 A 4 4 4 4 4 4 4				
11. Fill in the blanks with the correct preposition or conjunction.				
1. Social media has revolutionized the way people communicate, it has also				
caused significant challenges.				
2. Many young people feel pressured unrealistic beauty standards presented				
online.				

	ucation;, it can also expose users to harmful			
content.  4. Many people multitask using	g the Internet, which can reduce productivity.			
5. The Internet is helpful, use	ers need to manage their time wisely to avoid			
addiction.				
	ocial media realizing how much time has			
passed.  7. Sleep patterns are disrupted excessive screen use before bed.  8. A person can feel isolated they are always virtually connected.  9. Communication online feels immediate often lacks depth.  10. The Internet provides instant access to information, it also requires				
discernment to avoid misinformation.				
12. Choose the correct word to co	omplete the sentences: 'affect' or 'effect.'			
1. Spending too much time online can 2. The of social media on self-esteer 3. The constant exposure to online conte 4. Over-reliance on the Internet may 5. Awareness of how the Internet impact 6. The of notifications and alerts car 7. Excessive use of the Internet might 8. The Internet may children's devel 9. Many people are unaware of the t 10. Taking breaks from digital devices can	m is often negative.  In the can how people see themselves. In relationships with family and friends. Its mental health can help reduce its on users. In the disruptive during work or study. In the disruptive during work or study. In the can help reduce its on users. In the disruptive during work or study. In the can help reduce its on users. It is the can hel			
13. Rewrite the sentences using pa	assive voice where possible.			
<ul> <li>3. Harmful content can affect te</li> <li>4. Notifications interrupt work a</li> <li>5. Experts have studied the long</li> <li>6. Many people experience isola</li> <li>7. Teachers use the Internet as a</li> <li>8. Online communication has re</li> <li>9. Digital habits shape how you</li> </ul>	created a sense of false community. senagers profoundly. and reduce focus. g-term effects of media addiction. ation despite being constantly connected.			
14. Match the sentence halves to f	form complete ideas.			
1 Chanding avagains time	a growth arrab it marridge instant			
1. Spending excessive time online	a. even though it provides instant connections.			
	b. can cause anxiety and restlessness.			

2. Social media often makes	c. but it also exposes users to
people feel isolated	harmful content.
3. Proper Internet usage	d. might lead to better mental health.
4. The Internet is a powerful tool	e. can disrupt focus and
for education	concentration.
5. Notifications and alerts	f. but it often lacks meaningful
6. Digital communication seems	interactions.
easy	g. due to unrealistic beauty standards
7. Young people struggle with self-	online.
esteem	h. when users spend hours on social
8. Productivity decreases	media.

#### 15. Correct the errors in these sentences.

- 1. Many people are rely on the Internet for their daily tasks.
- 2. Excessive usage of the Internet can affects emotional well-being.
- 3. Notifications is a major cause of distractions.
- 4. People feels isolated despite being connected online.
- 5. The Internet has revolutionized how we communicates with each other.
- 6. Many young person struggle with the pressure of beauty standards.
- 7. Overusing the Internet effects productivity and sleep.
- 8. Online communication seem convenient but lacks depth.
- 9. The Internet provide instant access to knowledge.
- 10. Social media often lead to feelings of loneliness.

# 16. Write a short paragraph using the vocabulary and grammar from the unit.

Write about how the Internet influences your daily life. Include at least 10 sentences and use words like "affect," "effect," "addiction," "productivity," "isolation," and "beauty standards." Use varied sentence structures, and make sure to include at least one conditional sentence and one sentence in the passive voice. Example start: "The Internet has a significant effect on my daily routine. It affects how I communicate with others, as..."

# 17. Write an argumentative essay on whether the Internet has had a positive or negative impact on society. Word count: 180–220 words.

#### UNIT 22. The influence of the Internet on you

#### TASKS:

## 1. Read the text and briefly write its meaning.



The Internet significantly impacts various aspects of a person's life, affecting how they communicate, perceive beauty standards, and deal with media addiction and exposure to harmful content, often leading to profound emotional and psychological consequences.

Media addiction, fueled by the Internet, can deeply affect a person's well-being. The constant barrage of notifications and the allure of social media often lead to hours of mindless scrolling. This addiction can result in feelings of anxiety and restlessness when not connected, and a sense of emptiness and time loss after prolonged use. Over time, a person may notice decreased productivity, disrupted sleep patterns, and a decline in real-life social interactions. The psychological toll includes symptoms of depression, increased stress levels, and an overwhelming feeling of being trapped in a digital cycle that's hard to break.

The Internet has revolutionized communication, but it also comes with significant consequences. Instant messaging and social media platforms create a facade of closeness, yet often leave a person feeling more isolated than ever. The lack of deep, meaningful

interactions can lead to feelings of loneliness and disconnection. Over-reliance on digital communication can diminish social skills, making face-to-face interactions anxiety-inducing. This superficial connectivity can result in a hollow sense of social engagement, leaving a person yearning for genuine human contact that feels increasingly rare in a digitally dominated world.

3)

Encountering harmful content online can have a severe impact on a person's mental health. Graphic images and disturbing videos can trigger anxiety, nightmares, and even symptoms of post-traumatic stress disorder (PTSD). The constant exposure to such content can desensitize a person, leading to emotional numbness and a distorted view of reality. The emotional toll of coming across violent or disturbing material can lead to increased fear, mistrust, and a pervasive sense of vulnerability, affecting overall psychological well-being.

4)

The Internet's influence on beauty standards can wreak havoc on a person's self-esteem. Constantly comparing oneself to the seemingly perfect lives and appearances showcased on social media can lead to profound feelings of inadequacy and insecurity. This comparison culture often results in body image issues, eating disorders, and an unhealthy obsession with appearance. The pressure to conform to unrealistic beauty ideals can cause anxiety and depression, as a person strives for perfection that is often unattainable. The impact is a diminished sense of self-worth and a continuous struggle with identity and acceptance.

In summary, the Internet's influence on a person's life is profound, bringing both positive and negative consequences. The convenience of digital connectivity is often overshadowed by the psychological toll of media addiction, the emptiness of superficial communication, the trauma of harmful content, and the insecurity bred by unrealistic beauty standards. These impacts highlight the need for mindful and balanced Internet use, as people navigate the digital world while striving to maintain their emotional and psychological health. The consequences are deeply personal, affecting not just how a person interacts with the world, but how they perceive themselves and their place in it.

# 2. Match the heading (A-E) to paragraphs (1-5).

A) Harmful Content

C) Communication

B) Beauty Standards

**D)** Media Addiction

#### 3. The sentence is True or False.

- 1) Media addiction caused by the Internet can result in feelings of anxiety and restlessness when not connected.
  - 2) The Internet has no significant impact on a person's productivity and sleep patterns.

- 3) Instant messaging and social media platforms always create a sense of deep, meaningful interactions.
- 4) Encountering harmful content online can trigger symptoms of post-traumatic stress disorder (PTSD).
- 5) Constantly comparing oneself to social media images can lead to feelings of inadequacy and insecurity.
- 6) The pressure to conform to unrealistic beauty ideals promoted online has no effect on a person's self-esteem.

4. Translate the following English units into Ukrainian.
1) woven itself into the fabric of daily life
2) double-edged sword
3) barrage of notifications-
4) facade of closeness
4) facade of closeness
5. Give synonyms to the words in <u>bold</u> type.
1) Media addiction can deeply <b>affect</b> a person's well-being.
2) Over time, a person may notice <b>decreased</b> productivity due to media addiction.
3) Instant messaging and social media platforms create a <b>facade</b> of closeness.
4) Encountering harmful content online can have a <b>severe</b> impact on mental health.
5) The pressure to <b>conform</b> to unrealistic beauty ideals can cause anxiety and depression.
6. Translate from Ukrainian into English:
• Вплив
• Двосічний меч
• Постійний потік
• Видимість-
• Справжній-

		ожній				
	<ul> <li>При</li> </ul>	стосува	тися			
7		his wor endency		nout using the give		
	• Supe	erficial				-
	• Dese	ensitize-				
8	. Fill in the	blanks	with the necessa	ary words in box.		
	compar	e	overcome	promote	influenced	
	notificat	ions	harmful	create	decrease	
4 5 6	) Instant m ) Many ind ) Social me ) Overuse o	essaging ividuals edia can	can sometimes _ struggle to unrealis	tent can be traumat a false sen their media add tic beauty standard productivity and	se of closeness. liction. s.	
9	. Read the	followi	ng situation and	complete the tasks	s below.	
organi attend major compl When waited	sed by you ed the even disappoints First of all, ete registra we arrived d in a poor	g to compa t with soment. the contion. at the sp	ny at the Digital leveral of my class	Future Conference of smates, and unfortund dvised us to arrive were surprised to for an hour.	d "CyberSecure Tod Centre on 12 June. I nately, it turned out to 45 minutes early to and a long queue and	•
			ing unwell due to	the heat. My frien	d actually fainted.	·

The event organisers made matters worse. They did not provide any water or assistance.  (3)
We were finally allowed to enter the seminar room, which was overcrowded and poorly lit.  (4)
The sound system produced constant feedback, and the projector malfunctioned throughout the keynote session.  (5)
I was shocked when the speaker, instead of delivering the promised <b>cybersecurity training</b> , started advertising his company's services.  (6)!
We had travelled from another city, expecting a professional and <b>(educate)</b> experience. Instead, we were left disappointed and frustrated.
(7) I hope that, in the future, you will consider improving your event <b>(organise)</b> and providing more reliable <b>(inform)</b> beforehand.
Yours faithfully, Ivan Kovalchuk 3rd-year student, Computer Science Department
10. Complete the text by using the correct form of the word in brackets.
Cloud-native development has become the cornerstone of modern software engineering.
Recent (1 innovate) in container orchestration have raised
expectations for both flexibility and performance, yet the rapid pace of change also tests
the (2 rely) of legacy toolchains. To remain (3 efficient)
in such a dynamic environment, teams must adopt a culture of
continuous learning and quick (4 adapt)
Security, meanwhile, can no longer be an after-thought. With micro-services multiplying
by the hour, companies require a (5 secure)by-design strategy that
(6 integrate) compliance checks directly into each deployment
pipeline. Sophisticated log-management platforms now (7 analyse)
billions of events per day, enabling near-real-time anomaly detection and fostering closer
(8 collaborate) between developers and security analysts.

Equally important is universal access to computing	ng resources. Cloud providers have made
high-performance GPUs far more (9 accessible)	, allowing start-ups
to (10 expand) their AI res	earch without prohibitive upfront costs.
Yet as auditors (11 observe)	_, unrestrained growth can obscure the
true (12 mature) of a pla	tform's cost model and leave budgets
exposed to (13 volatile) con	sumption peaks.
Effective cost (14 govern)	_ therefore becomes as (15 critical)
as the code itself, demandi	ng transparent dashboards and granular
spending limits at every stage of the product life	cycle.
11. Exercise 1: Fill-in-the-Blank	
Complete the sentences using the correct fo  1. The artist felt	en they saw their work copied by an AI te) stunning visuals, but many argue it
3. Some people believe AI willothers think it will enhance it. 4. The artist's (unique) perspective of 5. Ethical (concern) about AI in art h	cannot be replicated by a machine.
12. Sentence Transformation	
Rewrite each sentence using the word in parmeaning.  1. AI can create art much faster than human 2. The artwork was beautiful, but it felt emp 3. Many artists feel threatened by AI's abili 4. The emotional depth in human-created ar 5. Using AI to produce art without giving co	s. (speed) by to me. (lack) ty to make art. (threatening) t is hard to match. (difficult)
13. Match the Sentences	
Match the beginning of each sentence (Colu	umn A) with its correct ending (Column

).	
Column A	Column B
1. Some people misuse AI	a. because it can mimic human creativity.

2. The emotional connection between viewers and art	b. diminishes when art lacks authenticity.
3. AI-generated art is often visually stunning	c. to create works without proper credit.
4. Artists invest a lot of time and effort	d. in creating meaningful and unique pieces.
5. Ethical dilemmas arise	e. when technology is used to exploit creativity.

#### 14.True or False

	Read the statements below and identify if they are true (T) or false (F).
	1. AI-generated art always has the same emotional impact as human-created art.
(	
	2. Some people use AI to imitate human creativity without acknowledgment. ()
	3. The ethics of using AI in art is not a concern for most artists. ()
	4. Authentic art often reflects the creator's personal experiences.
	5. Mass production by AI can devalue human-crafted art. ( )

#### 15.Create Sentences

Using the words provided, create meaningful sentences about the risks of AI in art.

- 1. originality / creativity / essential
- 2. ethical / consequences / harmful
- 3. human touch / irreplaceable / valuable
- 4. exploit / technology / consequences
- 5. art market / oversaturation / problem

# 16. Write short responses (2–3 sentences each) to the following questions.

1How do you think AI might change the art world in the next 10 years?

- 2. In your opinion, what makes art valuable: its appearance or its story? Why?
- 3. Do you think AI-generated art should be treated the same as human-created art? Explain.
  - 4. How can artists protect their work from misuse by AI?
  - 5. What role does emotional depth play in making art meaningful to viewers?

# 17. Write a personal reflection on how the Internet has influenced your habits, lifestyle, or values. Word count: 150–180 words.

## UNIT 23. The Risks of Artificial Intelligence

#### TASKS:

1. Read the text and briefly write its meaning.

# Plagiarism: is a one to one theft

# AI Generated: is a one to many theft

Artificial Intelligence (AI) has undoubtedly revolutionized various fields, but its impact on the world of art has raised significant concerns. The advent of AI-generated art has created a storm within the artistic community, bringing to the forefront issues of ethics, originality, and the devaluation of human creativity.

One of the most glaring risks of AI in art is the devaluation of human work. Artists pour their heart and soul into their creations, each piece a reflection of their unique perspective and emotional depth. However, AI can churn out artworks in a fraction of the time, devoid of the human touch and lived experience. This mass production capability diminishes the value of human-crafted art, reducing it to just another commodity. It's akin to comparing a hand-stitched tapestry to a machine-made rug – technically similar, but worlds apart in terms of value and meaning.

The unethical use of AI in art poses a direct threat to the livelihoods of artists. Some individuals use AI to generate art, and then claim it as their own, bypassing the effort and skill that genuine artists invest in their work. This deceit not only robs artists of recognition and revenue but also undermines the integrity of the art market. It's like a wolf in sheep's clothing, where the true artist's toil is hidden behind a facade of technological prowess. The proliferation of AI-generated art can lead to a saturation of the market, making it increasingly difficult for genuine artists to find an audience and sustain their careers.

Perhaps the most insidious consequence of AI in art is the erosion of the emotional connection between the viewer and the artwork. Art is not just about visual appeal; it's about the stories, emotions, and experiences that it conveys. AI-generated art, while often visually impressive, lacks the depth and authenticity that comes from a human creator. This can lead to a loss of the visceral, emotional response that true art evokes, leaving viewers with a hollow, superficial experience. It's like replacing a heartfelt, handwritten letter with a generic, typed note – technically proficient, but emotionally barren.

It is crucial to note that AI itself is not the problem; the ethical dilemmas arise from how it is used. When individuals exploit AI to mimic and replace human creativity, they cross a line that threatens the very essence of art. The problem lies in the unscrupulous

users who claim AI-generated art as their own, sabotaging the lives and careers of real artists. This unethical behavior is a betrayal of the trust and respect that the art community is built upon. It's a betrayal akin to plagiarism, where the original creator's voice is drowned out by a sea of unearned accolades.

While AI has the potential to augment and inspire new forms of art, its misuse poses significant risks to the artistic community. The devaluation of human work, the sabotage of artists' livelihoods, and the erosion of the emotional essence of art are profound issues that need to be addressed. The onus is on society to use AI ethically, ensuring that it complements rather than undermines human creativity. By recognizing and valuing the unique contributions of human artists, we can safeguard the integrity and emotional richness of the art world, ensuring that it remains a realm where the human spirit can truly shine.

2)	In what ways does the unethical use of AI in art threaten the livelihoods of
sts?	
3)	What emotional consequences can arise from the prevalence of AI-generated
_	1 1
_	Why is AI itself not considered the problem in the context of art?

#### 3. The sentence is True or False.

2. Answer these questions.

- 1) AI-generated art can be produced in a fraction of the time it takes for human artists to create their work.
- 2) The use of AI in art has no effect on the value of human-created artwork.
- 3) Some individuals claim AI-generated art as their own, which undermines the integrity of the art market.

- 4) AI-generated art often evokes the same deep emotional response as human-created art.
- 5) The main issue with AI in art lies in the technology itself, not in its misuse by individuals.
- 6) Society has a responsibility to use AI ethically to support human creativity in art.

4. Translate the following English units into Ukrainian	

1) Created a storm within
2) Pour their heart and soul
3) A wolf in sheep's clothing-
4) A hollow, superficial experience
5) A double-edged sword-
6) Safeguard the integrity and emotional richness
5. Give synonyms to the words in <u>bold</u> type.
1) The advent of AI-generated art has <b>created</b> a storm within the artistic community.
2) Artists pour their <b>heart</b> and soul into their creations.
3) AI can churn out artworks in a <b>fraction</b> of the time.
4) The <b>proliferation</b> of AI-generated art can lead to market saturation.
5) This <b>unethical</b> behavior is a betrayal of the art community's trust.
6. Translate Ukrainian to English.
• Суперечка
<ul><li>Спільнота-</li></ul>
<ul><li>Цінність-</li></ul>
• Обман-
<ul><li>Обман</li></ul>
<ul><li>Емоційний</li></ul>
<ul> <li>Забезпечити-</li> </ul>
- · · · · · · · · · · · · · · · · · · ·

7. Explain this word in English wit  • Proliferation-	-
Insidious	
Authenticity	
8. Fill in the blanks with the necess	sary words in the box.
1) AI-generated art can the v 2) Artists often their heart an 3) The of AI-generated art ca 4) This behavior undermines 5) Society must the ethical us  9. Choose the correct option to con a) AI can (inspire/use) a b) Automation often (saves c) Ethical guidelines	and soul into their creations.  an lead to a saturated market.  the integrity of the art community.  se of AI in art.  applete the sentences.
workplaces. d) Self-driving vehicles (revolu	ntionize/discarded) transportation systems. reduce/apply) the need for physical stores.
10. Match the sentences to their co	rrect descriptions.
<ol> <li>Robots can work tirelessly without breaks.</li> <li>AI creates art that challenges traditional concepts.</li> <li>Automation in retail simplifies the checkout process.</li> <li>Technological evolution opens doors to global collaboration.</li> <li>Machines replacing human jobs raise significant ethical concerns.</li> </ol>	<ul> <li>a) Description: Efficiency in repetitive tasks.</li> <li>b) Description: Ethical consideration and societal impact.</li> <li>c) Description: Innovation in creative industries.</li> <li>d) Description: Convenience and customer experience.</li> <li>e) Description: Opportunities for worldwide teamwork.</li> </ul>

#### 11. Correct the errors in the sentences below.

- 1) AI are transforming the job landscape.
- 2) This kind of technology have revolutionized education.
- 3) Automated trucks reduces the demand for human drivers.
- 4) Retail jobs was unaffected by automation in the past.
- 5) Advances in AI promotes sustainable practices.

#### 12. Fill in the blanks with suitable words.

	ргешсі шийрі ензиг	e develop influence
1) Experts	that automation w	rill reshape the workforce.
2) Workers need to		echnologies and processes.
3) Employers	the ethical use	of AI in recruitment systems.
4) Companies	tools to	productivity while addressing risks

prodict adapt ensure develop influence

## 13. Write full sentences using the following sentences.

- a) Automation / solved / efficiency problems / quickly.
- b) AI / continue / influence / creative industries / positively.
- c) Students / adapt / new learning methods / through / technology.
- d) Retail / transformed / e-commerce platforms.
- e) Transportation / being / revolutionized / by / self-driving vehicles.

#### 14. Rewrite the sentences using passive voice.

- 1) Automation creates numerous job opportunities.
- 2) Engineers develop innovative AI systems.
- 3) Retailers simplify checkout processes with technology.
- 4) Manufacturers replace human workers with machines.
- 5) AI influences all aspects of modern industries.

#### 15. Complete the sentences using the correct tense.

a) By 2030, automation _	(replace) most repetitive tasks.
b) Engineers	(develop) AI systems since the early 2000s.
c) Currently, retailers	(use) automated checkout systems widely.
d) Last year, manufacture	ers (introduce) new robotics into production lines.
e) In the near future, cre	eative industries (embrace) AI-generated art even
more.	

1/	Commission	41			:			
10.	Complete	the sentences	using the	passive	voice	wnere	approp	riate.

a) In recent years, self-or	lriving cars	(develop) b	y major tech companies.
b) Automated checkout	systems	_ (introduc	e) into retail environments to
increase efficiency.			
c) Teachers	_ (assist) by AI to	ols in creat	ing personalized lessons for
students.			
d) Last week, new AI-ba	ased recruitment soft	ware	(launch) to streamline
hiring processes.			
e) By 2025, numerous	administrative task	.s	(perform) by intelligent
systems instead of humans			

17. Write an article about the risks of artificial intelligence in areas like education, law, or job recruitment. Word count: 160–200 words.

## UNIT 24. The Risks of Automation

#### TASKS:

#### 1. Read the text and briefly write its meaning.



## **Job Displacement**

Automation hailed as the harbinger of a more efficient and prosperous future, carries with it a deeply ironic twist. While it promises to make our lives easier, it also threatens to leave many of us out in the cold, facing job displacement on an unprecedented scale. The very technology designed to free us from drudgery is now putting countless jobs at risk, casting a long shadow over the workforce.

The first casualties in this march of progress are often those in repetitive or routine jobs. Manufacturing workers, once the backbone of the industrial revolution, now find themselves replaced by robots that can work tirelessly without breaks or complaints. Assembly line jobs, which provided steady employment for generations, are being handed over to machines that can do the same work faster and with fewer errors.

In the realm of transportation, truck drivers are staring down the barrel of automation. Self-driving vehicles, while still in their nascent stages, are poised to revolutionize the industry. What was once considered a stable job, requiring skill and endurance may soon be a relic of the past, replaced by autonomous trucks that don't need sleep, food, or wages.

Retail workers are also feeling the pinch. Automated checkout systems and online shopping platforms have significantly reduced the need for human cashiers and sales

associates. The rise of e-commerce giants has created a world where a few clicks can replace the friendly face-to-face service once found in brick-and-mortar stores.

Administrative and clerical jobs are not immune either. Tasks such as data entry, scheduling, and even some aspects of customer service are increasingly being handled by sophisticated software and artificial intelligence. These white-collar positions, once seen as safe from the mechanized threat, are now just as vulnerable as their blue-collar counterparts.

The cruel irony of automation lies in its promise versus its reality. Automation was supposed to liberate us from mundane tasks, giving us more time to pursue creative, fulfilling endeavors. Instead, it has created an environment where many fear for their livelihoods. The dream of a future where machines handle the grunt work, allowing humans to enjoy leisure and intellectual pursuits, is marred by the stark reality of job losses and economic insecurity.

It's a bitter pill to swallow, seeing technology that should have been a boon turning into a bane for so many. The streets, once bustling with workers heading to their jobs, are now filled with the echoes of uncertainty. Those who once had steady employment now find themselves in the precarious position of seeking new skills or facing unemployment.

The emotional toll is significant. It's not just about losing a job; it's about losing a sense of purpose, a daily routine, and the dignity that comes with earning a livelihood. The anxiety and stress of job displacement weigh heavily on the minds of those affected, creating a ripple effect that touches families and communities.

The promise of automation should not come at the cost of human livelihoods. While technology advances, there must be a concerted effort to ensure that people are not left behind. Retraining programs, social safety nets, and ethical considerations in deploying automation are crucial. It is essential to find a balance where automation can coexist with human employment, enhancing lives rather than diminishing them.

The irony of automation's impact on jobs serves as a poignant reminder that progress must be managed with care and compassion. As we embrace the future, let us not forget the human element at its core, striving to make the world a better place for everyone, not just the machines.

# 2. Answer these questions.

1) What is the ironic twist associated with the promises of automation?				
2) Which types of jobs are the first to be affected by automation?				
<u> </u>				

4) What potential changes might self-driving vehicles bring to the transportation industry?
5) In what ways are retail workers affected by automation and the rise of e-commerce?
6) How are administrative and clerical jobs being impacted by automation?
7) What emotional and psychological effects does job displacement due to automation have on individuals?
8) What measures are suggested to ensure that the advancement of automation doe not come at the cost of human livelihoods?
3. The sentence is True or False.
<ol> <li>Automation promises to make our lives easier but also threatens to leave many people without jobs.</li> <li>Manufacturing workers are not affected by automation because their jobs canno</li> </ol>
be performed by machines.  3) Self-driving vehicles are expected to replace truck drivers in the transportation
industry.  4) The rise of e-commerce has reduced the need for human cashiers and sales
associates. 5) Administrative and clerical jobs are safe from the impacts of automation.
<ul><li>6) Job displacement due to automation can lead to feelings of anxiety and loss of purpose among affected individuals.</li><li>4. Translate the following English units into Ukrainian.</li></ul>
1) A bitter pill to swallow
175

5) Staring down the barrel- 6) Staring down the barrel-
5. Give synonyms to the words in <u>bold</u> type.
1) Automation was supposed to <b>liberate</b> us from mundane tasks.
2) The streets are now filled with the <b>echoes</b> of uncertainty.
3) Automation has <b>revolutionized</b> the transportation industry with self-driving vehicles.
4) The emotional <b>toll</b> of job displacement weighs heavily on those affected.
5) The rise of e-commerce has <b>reduced</b> the need for human cashiers.
6. Translate Ukrainian to English.
• Автоматизація
• Робочі місця
• Залізниця
• Безроонття
<ul> <li>Ефективність</li></ul>
• Заміна
<ul><li>Навички</li></ul>
7. Explain this word in English without using the given word itself.  • Displacement
• Precarious
Nascent

# 8. Fill in the blanks with the necessary words in box

1) Automation can many jobs, making it difficult for people to find new employment.  2) Workers must new skills to remain competitive in the job market.  3) Companies often to automation to increase efficiency and reduce costs.  4) Many individuals anxiety and stress due to the threat of job displacement.  9. Rewrite the following sentences using the passive voice where appropriate.  a) Technology has transformed the workplace significantly.  b) They are developing new AI tools to combat misinformation.  c) Social media platforms spread false information quickly.  d) Governments will implement stricter policies to regulate online content.  e) People were discussing propaganda techniques during the meeting.  10. Use the correct form of the verbs in parentheses to complete the sentences.  a) If we (fact-check) more often, we wouldn't believe so many false stories.  b) Propaganda (use) to manipulate public opinion for centuries.  c) By the time AI bots (detect), they had already spread disinformation.  d) Many people (not realize) the impact of false information until it it too late.  e) If misinformation (not control), it might destabilize societies.  11. Write sentences about how people should react to propaganda using mod verbs (must, should, could, might, etc.).  a) verify the source of information before sharing it.  b) People question the legitimacy of news that seems too sensational. c) You rely on independent fact-checkers to confirm the truth. d) Social media platforms play a greater role in identifying and blocking fal information. e) Propaganda influence you if you don't think critically.	learn	adapt	experience	turn	overcome	replace
new employment.  2) Workers must	1) Auton	nation can	man	y jobs, ma	king it difficult	for people to find
2) Workers must				,	8	1 1
3) Companies often			new sl	kills to ren	nain competitiv	e in the job market.
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9. Rewrite the following sentences using the passive voice where appropriate.  a) Technology has transformed the workplace significantly. b) They are developing new AI tools to combat misinformation. c) Social media platforms spread false information quickly. d) Governments will implement stricter policies to regulate online content. e) People were discussing propaganda techniques during the meeting.  10. Use the correct form of the verbs in parentheses to complete the sentences. a) If we (fact-check) more often, we wouldn't believe so many false stories. b) Propaganda (use) to manipulate public opinion for centuries. c) By the time AI bots (detect), they had already spread disinformation. d) Many people (not realize) the impact of false information until it it too late. e) If misinformation (not control), it might destabilize societies.  11. Write sentences about how people should react to propaganda using mod verbs (must, should, could, might, etc.). a) verify the source of information before sharing it. b) People question the legitimacy of news that seems too sensational. c) You rely on independent fact-checkers to confirm the truth. d) Social media platforms play a greater role in identifying and blocking fal information. e) Propaganda influence you if you don't think critically.	4) Many	individuals	an	xiety and s	tress due to the	threat of job
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information. e) Propaganda influence you if you don't think critically.	c) You	rely o	on independent f	fact-checke	ers to confirm t	he truth.
e) Propaganda influence you if you don't think critically.	d) Social medi					
		ı	influence you	if you dor	n't think critical	lly.
12 Combine the sentences using relative clauses						

#### 12. Combine the sentences using relative clauses.

a) Propaganda often plays on emotions. It targets people's fears and biases.

- b) False information spreads quickly. It is usually shared on social media.
- c) The AI bots were detected. They had been disseminating fake news online.
- d) Russia uses propaganda techniques. These techniques destabilize opposing countries.
- e) Social media platforms are flooded with fake news. This makes it harder for users to trust information.

## 13. Complete the sentences with the correct prepositions.

F	r r r r r r r r r r r r r r r r r r r
a) Propaganda works playing	g on people's emotions and biases.
b) AI tools are more effective	creating fake content nowadays.
b) AI tools are more effective c) People should be cautious	the information they consume online.
d) Social media platforms are responsible	allowing the spread of
disinformation.	
e) Governments are working	stricter regulations to combat propaganda.
14. Rewrite the sentences in repor	ted speech.
a) "We need to be more cautious about m	isinformation," said the journalist.
b) "The AI bots have been creating false of "Governments will introduce new police".	content for weeks," the report revealed. cies to tackle propaganda," experts predicted.
d) "This video was AI-generated," the fac	
e) "You should always double-check the	
e) Tea sheara arrays acaese chees are	searce of your intermunent, one was noted.
15. Answer the comprehension que	estions about a hypothetical scenario.
Imagine a country where social media is a generated content has flooded the platform	the primary news source for its citizens. Al-
a) What might be the consequences of rel	
	from being influenced by propaganda in this
situation?	from being infraenced by propagation in this
c) What role do you think education plays	s in combating misinformation?
d) Why is it essential to verify the authentic	
e) What could international organizations	
,	
16. Fill in the blanks with the corr	ect conjunctions (because, although, while,
unless, and).	
a) Propaganda can be highly effective,	it manipulates emotions.
b) AI-generated content is d	ifficult to identify, people still fall for it.
c) Social media platforms must take actio	n they risk losing user trust.  nstream media, others believe everything they
d) many people distrust main	nstream media, others believe everything they

e) Misinformation spreads quickly \_\_\_\_\_\_ people share it without checking facts.

read online.

17. Write a letter to the editor suggesting ways to reduce the negative effects of automation on the workforce. Word count: 160–200 words.

#### UNIT 25. False information

#### TASKS:

#### 1. Read the text and briefly write its meaning.



Propaganda has always been a powerful tool for shaping public opinion and manipulating the masses, but in the age of the Internet, its reach and influence have grown exponentially. The digital age has made it easier than ever for false information to spread like wildfire, and nowhere is this more evident than in the realm of propaganda. People are more susceptible to being influenced by what they see online, and the rise of artificial intelligence (AI) has only added fuel to the fire.

Propaganda works by playing on people's emotions and biases, often presenting information in a way that seems credible but is actually misleading or entirely false. The Internet provides the perfect breeding ground for this, as people are constantly bombarded with information from countless sources. It's like drinking from a fire hose – overwhelming and difficult to filter. Many people don't have the time or resources to fact-check everything they read, making them easy targets for propaganda. Once a piece of false information takes root, it can spread rapidly through social media, blogs, and even mainstream news sites. The power of propaganda lies in its ability to tap into pre-existing beliefs and fears, reinforcing them and making them seem more legitimate.

The advent of AI has taken propaganda to a whole new level. AI-generated art and bots are now being used to create and disseminate false information more effectively. These technologies can produce realistic images and videos that are nearly impossible to distinguish from reality, adding a new layer of deception to propaganda efforts. For

instance, AI bots can be programmed to flood social media with specific narratives, amplifying certain viewpoints while drowning out opposing voices. These bots can engage with real users, spreading false information and creating the illusion of widespread consensus. It's like a puppet show, where the strings are pulled by unseen hands, manipulating the audience without their knowledge.

Russian propaganda is a prime example of how AI and the Internet can be used to influence public opinion on a massive scale, particularly during times of war. During wars, Russian operatives utilize AI-generated content and bots to craft and disseminate narratives that serve their strategic interests. This includes creating false reports of enemy actions, fabricating evidence of atrocities, and spreading disinformation to undermine the morale of opposing forces and civilians. By flooding social media with these fabricated stories, they create confusion and distrust, making it difficult for people to discern the truth.

In the context of war, Russian propaganda aims to destabilize and demoralize the enemy while bolstering support at home. For example, they might release AI-generated videos depicting enemy forces committing war crimes, even if these events never occurred. These tactics are designed to provoke outrage and rally domestic support for the war effort, all while weakening the resolve of the enemy. The use of AI makes these efforts more convincing and harder to detect, posing significant challenges for those trying to counteract the misinformation.

One of the most alarming aspects of propaganda is how easily people can be influenced. When individuals are exposed to the same false information repeatedly, it becomes ingrained in their minds, making them more likely to believe it. This is especially true in the echo chambers of social media, where people are often surrounded by likeminded individuals who reinforce their beliefs. The psychological impact of propaganda can be profound, leading people to take actions based on false premises. This can result in real-world consequences, from misguided political movements to public health crises. The ease with which propaganda can influence people highlights the importance of media literacy and critical thinking in today's digital age.

In conclusion, propaganda remains a potent force in the digital age, its influence magnified by the Internet and AI technologies. The ease with which false information can spread online makes people more susceptible to manipulation, and the use of AI-generated content and bots only exacerbates the problem. The case of Russian propaganda, especially during times of war, demonstrates the dangers of these developments, showing how they can destabilize societies and undermine democratic processes. As we navigate this new landscape, it's crucial to remain vigilant and critical of the information we encounter, striving to separate fact from fiction in an increasingly complex world.

# 2. Answer these questions.

1) 110	11000 0110	1111011101	 	 	on to opi	

1) How has the Internet made it easier for false information to spread?

2) What are some tactics used by AI to enhance the effectiveness of propaganda?
3) How does Russian propaganda use AI and the Internet during times of war?
4) Why are people easily influenced by propaganda in the digital age?
5) What are the consequences of repeated exposure to false information spread by propaganda?
3. The sentence is True or False.
<ol> <li>Propaganda often plays on people's emotions and biases to present misleading information as credible.</li> <li>The Internet makes it difficult for false information to spread widely and rapidly.</li> <li>AI-generated art and bots can produce realistic images and videos that are nearly impossible to distinguish from reality.</li> </ol>
<ul><li>4) Russian propaganda during wars aims to destabilize and demoralize the enemy while bolstering support at home.</li><li>5) People are rarely influenced by the propaganda they encounter online.</li></ul>
6) Repeated exposure to false information can lead to significant psychological impact and real-world consequences.
4. Translate the following English units into Ukrainian.
1) Spread like wildfire
2) Drinking from a fire hose-
3) Add fuel to the fire
4) Play on people's emotions
5) Puppet show
5. Give synonyms to the words in <u>bold</u> type.
1) The <b>advent</b> of AI has taken propaganda to a whole new level.

2) People are more <b>susceptible</b> to being influenced by what they see online.	
3) AI bots can be programmed to <b>flood</b> social media with specific narratives.	
4) Propaganda can create <b>confusion</b> and distrust among people.	_
5) It is important to remain <b>vigilant</b> and critical of the information we encounte	r.
6. Translate Ukrainian to English:	
<ul> <li>Війна-</li> </ul>	
<ul><li>Війна</li></ul>	
<ul><li>Вплив-</li></ul>	
• Дезінформація	
• Мережа	
• Реальність-	
• Зловмисник	
<ul> <li>7. Explain this word in English without using the given word itself.</li> <li>Disseminate</li></ul>	
• Amplify	
Destabilize	
8. Fill in the blanks with the necessary words in the box.	
manipulate amplify susceptible fabricate destabilize disseminate	
Propaganda can widely through social media, affecting many people.  AI-generated content can the impact of false information by making it monvincing.	re
The goal of disinformation is often to societies and create distrust.	

4) People are to believe false infe	ormation if they see it repeatedly.				
9. Complete the sentences with the	correct form of the verb in brackets.				
sender's identity.	phishing scams because they don't verify the				
information.	opened, the hacker (already steal) their				
4) (be) cautious can help you avo	oid becoming a victim.				
10. Rewrite the following sentences	in the passive voice.				
<ol> <li>Cybercriminals create fake websites to steal personal data.</li> <li>Phishers have designed convincing social media posts to deceive users.</li> <li>They are sending emails that mimic legitimate institutions.</li> <li>The attackers will gather sensitive information from unsuspecting individuals.</li> </ol>					
11. Match the words in Column A with					
Column A	Column B				
Disseminate	a) To distribute information widely.				
Fabricate	b) To create something false or fake.				
Amplify	c) To make something louder or more intense.				
Destabilize	d) To weaken or disrupt a system.				
12. Fill in each blank with the app unless, or when.	ropriate conjunction: although, because, so				
phishing emails look genuine,     You can avoid falling for scams     the website asked for personal     Always verify the sender's email address	l details, she became suspicious.				
13. Transform the following senten	ces using reported speech.				
1) "Never share your password with anyor 2) "We are implementing new security me 3) "Phishing scams have increased this ye.	easures," the company announced. ar," said the cybersecurity analyst.				

14. Fill in the blanks with the appropriate modal verb: must, can't, should, might, or could.
1) This email be legitimate—it has too many spelling mistakes.
2) You update your antivirus software to stay protected.
3) Phishers use social engineering techniques to manipulate victims.
4) It be a genuine message, but you should verify it to be sure.
15. Rewrite the following sentences using conditionals (first, second, or third).
1) If people know more about phishing, they will avoid becoming victims.
2) If I hadn't clicked that link, I wouldn't have exposed my information.
3) If we were more cautious, we wouldn't fall for these scams.
4) If you report the scam, it (help) others avoid being tricked.
16. Choose the correct word to complete each sentence.
1) The hacker (modified/manipulated) the document to make it look authentic.
2) Users should (suspect/susceptible) websites that ask for unnecessary
information.
3) Scammers often (fabricate/disseminate) stories to gain your trust.
4) The goal of phishing is to (amplify/destabilize) trust in institutions.
17. Write a social media post with 3 tips on how to identify fake news and misinformation online. Word count: 120–150 words.

## UNIT 26. Phishing

## TASKS:

## 1. Read the text and briefly write its meaning.



## **Dangers of Phishing**

Phishing a form of cybercrime where attackers attempt to deceive individuals into providing sensitive information, is a pervasive and insidious threat. Unlike traditional forms of fraud, phishing is incredibly subtle and adaptable, making it one of the most dangerous digital threats today. It lurks in every corner of the internet, from emails and social media to websites and even text messages, exploiting the trust and vulnerability of unsuspecting victims.

Phishing is everywhere. Cybercriminal's craft deceptive emails that mimic legitimate institutions, convincing recipients to click on malicious links or provide personal information. These emails often look astonishingly genuine, featuring official logos, correct grammar, and convincing language. It's like a wolf in sheep's clothing, designed to exploit the slightest lapse in judgment.

Social media platforms are another breeding ground for phishing. Fake accounts and messages that appear to come from friends or trusted brands lure users into divulging passwords or financial details. The rapid spread of information on social media amplifies

the reach of these scams, making it easy for phishers to cast a wide net and catch numerous victims.

Phishing can also take the form of websites that look almost identical to legitimate sites. These spoofed websites are designed to trick users into entering their login credentials, which are then harvested by the attackers. This method is particularly dangerous because it preys on the routine actions of internet users who believe they are interacting with a trusted site.

What makes phishing particularly dangerous is its subtlety. Unlike obvious scams, phishing attacks are meticulously crafted to avoid detection. Cybercriminals use sophisticated techniques to create messages and websites that are nearly indistinguishable from the real ones. This subtlety means that even the most cautious individuals can fall victim if they are not vigilant.

Phishers often exploit current events or popular trends to make their messages more convincing. For example, during tax season, phishers might send emails purporting to be from the IRS, while during a pandemic, they might send messages claiming to offer information on vaccines or relief funds. This adaptability makes phishing a moving target, constantly evolving to stay one step ahead of detection.

Certain segments of society are particularly vulnerable to phishing attacks. Elderly individuals, who may not be as familiar with digital security practices, are often prime targets. They might receive a phone call or an email that appears to be from a legitimate source, and without the knowledge to verify its authenticity, they could easily be deceived.

Young people, including teenagers and young adults, are also at risk. Their extensive use of social media and reliance on digital communication makes them susceptible to social media phishing attacks. Moreover, their tendency to share personal information online can make them easy targets for identity theft.

Small businesses are another vulnerable group. Lacking the robust cybersecurity measures of larger corporations, small businesses can easily fall prey to phishing attacks. An employee might inadvertently click on a phishing email, compromising the entire network and exposing sensitive business data.

Even tech-savvy individuals are not immune. Phishers use increasingly sophisticated tactics, such as spear phishing, where they target specific individuals with highly personalized messages. These messages might include details gleaned from social media profiles or previous data breaches, making them particularly convincing.

Phishing is a pervasive and dangerous threat that exploits the trust and vulnerabilities of individuals and organizations alike. Its ubiquity, subtlety, and variability make it a formidable challenge to combat. By understanding the tactics used by phishers and recognizing the vulnerable segments of society, we can better protect ourselves and our communities from this insidious form of cybercrime. Vigilance, education, and robust security measures are essential in the fight against phishing, ensuring that we stay one step ahead of the attackers.

	Answer these questions.
1)	How do cybercriminals make phishing emails look genuine?
2)	Why are social media platforms particularly susceptible to phishing attacks?
3)	What tactics do phishers use to exploit current events and trends?
4)	Which segments of society are especially vulnerable to phishing, and why?
-	The sentence is True or False.  Phishing attacks are easily detectable because they are obvious and poorly
crafted	
2)	Phishers often create fake websites that look almost identical to legitimate sites
	login credentials.
4)	Social media platforms are not commonly used for phishing attacks. Elderly individuals are particularly vulnerable to phishing attacks due to their
	familiarity with digital security practices.
	Phishers never exploit current events or popular trends to make their messages
	onvincing.  Small businesses are often targeted by phishing attacks because they typically
	bust cybersecurity measures.
4.	Translate the following English units into Ukrainian:
	1) Cast a wide net
	2) Lurk in every corner-
	3) Exploiting trust
	4) Moving target-
	5) Fall victim-
	6) Slip through the cracks-

J•	1) Phishing is an <b>insidious</b> threat that exploits the trust and vulnerability of unsuspecting victims.
	2) Cybercriminals <b>craft</b> deceptive emails that mimic legitimate institutions.
	3) These emails often look <b>astonishingly</b> genuine, featuring official logos and convincing language.
	4) Phishers use increasingly <b>sophisticated</b> tactics, such as spear phishing.
	5) Certain segments of society are particularly <b>vulnerable</b> to phishing attacks.
7.	<ul> <li>Шахрайство</li></ul>
	Spear phishing
	Subtlety
	Fill in the blanks with the necessary words in the box.

1) Phishing attacks can	individuals into providing sensitive information.
2) Cybercriminals often	emails that appear legitimate to deceive recipients. to phishing scams due to their subtlety.
3) Many people victim t	to phishing scams due to their subtlety.
4) Social media platforms can	a breeding ground for phishing activities.
9. Complete the sentences	using reported speech and the vocabulary provided
1) The IT expert said, "Using ant	ivirus software is essential for online protection."
→ The IT expert said that	
2) "Phishing scams are designed	to deceive people," the instructor reminded us.
→ The instructor reminded us that	at .
	atvarned, "Once a Trojan horse is installed, attackers can
control your device."	1.1
→ A cybersecurity professional v	varned that
	which makes it harder to detect," she explained.
→ She explained that	·
10. Transform the followin	ng sentences into passive voice.
1) Cybercriminals exploit weakno	esses in outdated software.
→ Weaknesses in outdated softw	are .
2) Many users download malicion	us attachments without realizing it.
→ Malicious attachments	
3) Hackers have stolen sensitive of	data from the company's database.
→ Sensitive data	·
4) The organization is implement	ing new measures to prevent phishing.
→ New measures	·
11. Match the terms with t	heir correct definitions.
1) Adware	
2) Spyware	
3) Rootkit	
4) Ransomware	
	users with unwanted advertisements.
	ed to monitor user activities and steal information.
	demands payment to unlock encrypted files.
a) A type of malware that hi	des deep within a system to avoid detection.
12. Rewrite the sentences u	ising conditionals.

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1) If you don't keep your software updated, malware might exploit vulnerabilities.

$\rightarrow$ If ,
→ If
→ If
→ If
→ If
13. Identify and correct the errors in the following sentences.
1) Viruses spread like wildfire, corrupt files and causes system crashes.
2) Cybercriminals tricks users by sending fraudulent emails.
3) Users should updating their devices regularly to prevent malware infections.
4) The antivirus software scan the system for threats every day.
14. Fill in the blanks using the vocabulary from the unit.
Social engineering is a tactic used by attackers to individuals into revealing personal information.      A is a type of malware that replicates itself and spreads across other devices.
3) Antivirus software must updated regularly to maintain its effectiveness. 4) Cybersecurity experts recommend caution when clicking on links in emails.
15. Complete the sentences with the correct form of the verbs in parentheses.
<ol> <li>If users (install) antivirus software, they (reduce) the risk of malware infections significantly.</li> <li>Cybercriminals (target) individuals who (not be) careful about verifying email senders.</li> </ol>
3) While the antivirus software (detect), the user (decide) whether to quarantine the file 4) If someone (click) on a malicious link, their device (can become) compromised. 5) Experts recommend that users (always check) for software updates before vulnerabilities (be) exploited.
16. Match the terms with their definitions.
<ol> <li>Worm</li> <li>Software designed to monitor and send user data to attackers.</li> <li>Spyware</li> </ol>
<ul><li>b. Malware that replicates and spreads across networks without human action.</li><li>3) Ransomware</li></ul>
c. A program that encrypts files and demands payment to restore access.

- 4) Adware
- d. Software that displays intrusive advertisements on a user's computer.
- 5) Trojan horse
- e. A program disguised as legitimate software that enables unauthorized access.
- 17. Write an email to a friend warning them about a phishing attempt and explaining how to recognize such scams. Word count: 140–170 words.

## UNIT 27. Viruses and Trojan horses

#### TASKS:

## 1. Read the text and briefly write its meaning.



In the vast landscape of cyber threats, viruses, and Trojan horses stand out as some of the most insidious and damaging forms of malware. These digital pathogens can infiltrate systems, wreak havoc on data, and compromise security in ways that can leave even the most tech-savvy individuals reeling. The ever-evolving nature of malware underscores the absolute necessity of robust antivirus protection, as these threats become more sophisticated and harder to detect.

Malware comes in many shapes and sizes, each with its own unique method of causing harm. Viruses, for instance, attach themselves to legitimate programs and replicate whenever the infected program runs. They spread like wildfire, corrupting files, stealing data, and causing system crashes. It's akin to a biological virus, silently infecting and spreading, often before the user is even aware of the problem.

Trojan horses, named after the legendary Greek story, are a different beast altogether. These malicious programs disguise themselves as harmless or useful software. Once the user installs the Trojan horse, it opens a backdoor to the system, allowing cybercriminals to access and control the device remotely. This can lead to a wide range of malicious

activities, from data theft and spying to turning the computer into a part of a botnet for launching further attacks.

The variability of malware is astonishing. There are ransomware programs that encrypt your files and demand payment for their release, spyware that monitors your activities and sends the information to an attacker, and adware that bombards you with unwanted advertisements. Rootkits can hide deep within your system, evading detection by standard antivirus programs, while worms can spread across networks, infecting multiple devices with ease.

In this digital age, having robust antivirus protection is not just an option – it's a necessity. Antivirus software acts as a first line of defense, detecting and eliminating malware before it can cause significant harm. It scans files, monitors system activities, and provides real-time protection against a wide array of threats. The importance of antivirus software cannot be overstated. It is like having a security guard for your digital life, constantly vigilant and ready to fend off intruders. However, antivirus alone is not a silver bullet. The ever-changing landscape of malware means that users must also stay informed and practice safe computing habits. Regular updates, cautious downloading, and being wary of suspicious emails or links are all critical components of a comprehensive security strategy.

The constantly evolving nature of malware is what makes it particularly dangerous. Cybercriminals are always finding new ways to bypass security measures and exploit vulnerabilities. Zero-day exploits, which take advantage of unknown security flaws, can render even the best antivirus software temporarily ineffective until updates are developed. The adaptability of malware means that it can strike anywhere, at any time. It can be delivered through email attachments, malicious websites, compromised software, or even through social engineering tactics that trick users into voluntarily installing the malware. This chameleon-like ability to change form and function makes malware a perpetual threat that requires constant vigilance.

In conclusion, the threat posed by viruses and Trojan horses is both significant and multifaceted. These forms of malware, along with their numerous variants, highlight the critical need for robust antivirus protection and a proactive approach to cybersecurity. The variability and adaptability of malware make it a formidable adversary, but with the right tools and practices, individuals and organizations can defend themselves against these digital threats. In the ever-shifting landscape of cyber threats, staying informed, protected, and cautious is the key to safeguarding our digital lives.

1) How do viruses differ from Trojan horses in their method of causing harm imputer systems?				
_				
_				

3) What are so lo they operate?	me of the different types of malwares mentioned in the text, and h
4) How do cyb	percriminals use zero-day exploits to bypass security measures?
5) What addition to the service of themselves in the service of th	onal steps, besides using antivirus software, can individuals take to from malware?
3. The sentence	ce is True or False.
1) Viruses atta	ch themselves to legitimate programs and replicate whenever the
nfected program ru	
	es disguise themselves as harmless or useful software to gain acces
o a system.	n only be delivered through email attachments.
	e encrypts files and demands payment for their release.
	virus software is sufficient protection against all types of malware
	ploits take advantage of known security flaws that have already be
ddressed.	
4. Translate th	he following English units into Ukrainian.
1) Infiltrate s	nystams
2) Wreak hay	ystems
3) Stand out-	
4) First line o	of defense-
5) Spread like	e wildfire
6) Програма	-вимагач
5. Give synony	yms to the words in <u>bold</u> type.

4) Antivirus software is	essential for protec	cting against digital	threats.
5) The <b>adaptability</b> of m	nalware makes it a	constant threat.	
6. Translate Ukrainian	to English.		
• Шкідливе програмн			
• Антивірус			
<ul><li>Троянський кінь</li><li>Вимогливе програми</li></ul>	ua nafannauauua		
<ul> <li>Вимогливе програми</li> <li>Шпигунське програ.</li> </ul>	не зиоезпечення мне забезпечення		
<ul> <li>Руткіт</li></ul>			
<ul><li>Хробак</li></ul>			
		ising the given wo	
• Insidious			
Insidious      Sophisticated			
<ul> <li>Insidious</li> <li>Sophisticated</li> <li>Vulnerabilities</li> </ul>			
<ul> <li>Insidious</li> <li>Sophisticated</li> <li>Vulnerabilities</li> <li>Fill in the blanks with viruses</li> </ul>	h the necessary w	ords in the box.	malware
<ul> <li>Insidious</li> <li>Sophisticated</li> <li>Vulnerabilities</li> <li>Fill in the blanks with viruses</li> </ul>	h the necessary w	ords in the box.	malware
Sophisticated      Vulnerabilities  8. Fill in the blanks with viruses trojan horses  1) In the vast landscape or comise security.	h the necessary w  antivirus exploits  of cyber threats,	ords in the box.  encrypt ransomware can infiltrate	malware worms
<ul> <li>Insidious</li> <li>Sophisticated</li> <li>Vulnerabilities</li> <li>Fill in the blanks with viruses trojan horses</li> </ul>	h the necessary w  antivirus exploits  of cyber threats, essential for detec	ords in the box.  encrypt ransomware can infiltrate ting and eliminating	malware worms e systems and g digital threa

5) 6)	encry	pt your files and	d demand payment f works, infecting mu	or their release.	ease.
ŕ			the correct forms		
	phishing cyber attack	spyware scam	backdoor firewall	vulnerabilities adware	
1) A	is desig	ned to extract s	sensitive information	n by luring individ	uals to fake
website	es.				
3) An (4) A 5) It's access.	open ir can bypa important to in	an application ass security mea astall a	ne, gathering inform can expose the system isures, allowing atta to safeguard your ence by displaying	em to unauthorized ckers to infiltrate no r system against u	access. etworks. nauthorized
devices	S.				
10	). Fill in the sen	ntences with <i>litt</i>	le, a little, few, or a	few.	
like rar	nsomware.		res when dealing way can make a big di		
3) 4) 5) Only	hackers are effort is ne peop	eskilled enough eeded to strength le truly understa	to exploit vulnerabilen the password pound the intricacies of	lities in well-protect licy in organization f network security.	ted systems s.
11 nothin		orrect word to	complete the senter	nces: something, a	nything, or
2) Is th 3) 4) The 5)	you post of hackers stole is more fru	e can do to fix the nline can be use from the strating than de	nusual in the networ ne issue immediately d against you in cyb database despite th aling with a virus th	r? per harassment case e encryption measu aat keeps reinstallin	res. g itself.
			hile browsing, report	t it to your II depa	rtment.
	keylogger denial of serv	botnet vice rootkit	brute force atta phishing	ck spoofing malware	
1)			sed computers used		
2)			overwhelming a cer		

3): A malicious program designed to hide in the system and grant access to
attackers.
4): Using forged communication to mislead someone into thinking it's
legitimate.
5): Stealing sensitive information by recording keystrokes. 6): Repeatedly trying different password combinations to gain access.
o): Repeatedly trying different password combinations to gain access.
13. Read the sentences and decide if they are true or false.
1) A botnet can be used for legitimate purposes, like processing scientific data.
2) Phishing emails are easy to identify because they always contain spelling errors.
3) A firewall can completely prevent all types of cyber attacks.
4) Encryption makes your data completely immune to vulnerabilities.
5) Denial of service attacks are targeted at individuals rather than organizations.
14. Complete the sentences using the correct auxiliary verbs: can, could, might,
or must.
1) Hackers attempt to exploit the software vulnerabilities if they notice them.
2) Cybersecurity professionals take immediate action to patch vulnerabilities.
3) Users be cautious when opening emails from unknown senders.
4) A virus cause damage if the antivirus software is not updated regularly.
5) Organizations put in place stricter policies to prevent data breaches.
15. Rewrite the sentences using conditional structures (if-clause, when-clause
etc.).
1) If the ransomware encrypts the files, you not be able to access them without
paying the ransom.
2) When a phishing attack targets a company, employees need to report in
immediately.
3) If the antivirus software detects malware, it notify you to take action.
4) When hackers find a backdoor in the system, they use it to steal sensitive data.
5) If you use strong passwords, you reduce the chances of getting hacked.
16. Choose the correct preposition to complete the sentences (on, in, at, between
etc.).
1) The vulnerability was found the application code.
1) The vulnerability was found the application code. 2) Hackers often hide malware legitimate-looking files.
3) A cyber attack happened midnight, targeting the server.
4) The firewall blocks suspicious traffic coming external networks.
5) Sensitive data must be stored encrypted drives for better security.

17. Write a helpdesk message explaining to a user how a virus or Trojan horse infected their system and how to fix it. Word count: 160–190 words.

## UNIT 28. Harassment/Bullying

## TASKS:

1. Read the text and briefly write its meaning.



In the vast and often unforgiving landscape of the internet, harassment and bullying have taken on new, insidious forms. Unlike traditional bullying, which might happen in the schoolyard or workplace, online harassment can reach its victims anywhere and at any time, making it a relentless and pervasive threat. The digital world offers a cloak of anonymity, allowing bullies to launch their attacks without fear of immediate repercussions, and this can escalate the cruelty to alarming levels.

One of the most terrifying aspects of online harassment is the sheer scale at which it can occur. Imagine being targeted not by one or two bullies, but by a coordinated group of hundreds, or even thousands, of individuals. This is not just a schoolyard spat; it's a digital lynch mob. The onslaught can come in waves of abusive messages, hateful comments, and even threats, leaving the victim feeling besieged and utterly helpless. The mental and emotional toll of such an experience is profound, as the constant barrage can lead to anxiety, depression, and in extreme cases, suicidal thoughts.

Adding another layer of complexity and horror to this modern scourge is the use of artificial intelligence. AI can be weaponized to perpetuate harassment and bullying in several ways. AI-generated content, such as deepfakes or manipulated images, can be used to humiliate or discredit individuals. Imagine waking up to find a convincingly realistic video of yourself saying or doing something you never did, spreading like wildfire across social media. The potential for damage to one's reputation and mental health is staggering.

Moreover, AI can automate the harassment process, creating bots that can spam victims with abusive messages around the clock. These bots can be programmed to circumvent blocking measures, ensuring that the harassment is relentless. AI-generated art, which can be a powerful tool for creativity, can also be twisted into a means of bullying. For instance, creating grotesque, mocking, or sexually explicit images of someone and sharing them widely can cause immense distress and humiliation.

The emotional impact of online harassment and bullying is exacerbated by the feeling of isolation it can create. When the attacks are coming from every corner of the internet,

it can feel as though there's no safe space left. The victim is left to deal with the fallout alone, often feeling like there's no escape from the digital tormentors.

But it's not all doom and gloom. AI also holds the potential to be part of the solution. Advanced algorithms can be used to detect and filter out abusive content before it reaches the intended target. Social media platforms are increasingly employing AI to monitor and flag harmful behavior, although this technology is still in its infancy and far from foolproof. AI can also help provide support to victims, using chatbots to offer resources and emotional support, and guiding them on how to report abuse and seek help.

In conclusion, harassment and bullying in the internet age have evolved into a terrifyingly pervasive threat, with the potential to impact victims on an unprecedented scale. The anonymity and reach of the digital world, combined with the power of AI, have given bullies new tools to inflict harm. Yet, the same technology that facilitates this abuse can also be harnessed to combat it. By staying informed, vigilant, and compassionate, we can work towards creating a safer and more supportive online environment for everyone.

1) How does online harassment differ from traditional forms of bullying?	
2) What makes being targeted by a group of hundreds or thousands of people of particularly terrifying?	online
3) In what ways can AI be used to perpetrate harassment and bullying?	
4) What are some potential emotional impacts of relentless online harassment ovictims?	on
5) How can AI be utilized to help combat online harassment and provide suppovictims?	ort to

## 3. The sentence is True or False.

- 1) Online harassment can happen anywhere and at any time, unlike traditional bullying.
  - 2) AI-generated content can only be used for positive purposes and creativity.
  - 3) Being targeted by hundreds of people online can lead to anxiety and depression.
  - 4) AI can be used to create bots that send abusive messages continuously.
  - 5) Victims of online harassment often feel supported and not isolated.
  - 6) Social media platforms are not using AI to monitor and flag harmful behavior.

4	<b>Translate</b>	the follo	wing Engl	ich unitc	into Ukr	ainian
4.	i i alisiate	THE TOHO	wing rangi	1211 1111112	IIIIO UKI	иннин.

	1) Vast and unforgiving landscape
	2) Cloak of anonymity
	3) Digital lynch mob-
	4) Spread like wildfire-
	5) Relentless and pervasive threat
	6) Escalate the cruelty
5.	Give synonyms to the words in <u>bold</u> type.
	1) Online harassment can be a <b>relentless</b> experience for many victims.
	2) The <b>impact</b> of being bullied by hundreds of people online can be devastating.
	3) AI-generated content can be <b>manipulated</b> to harm individuals.
	4) Victims of online harassment often feel <b>isolated</b> .
	5) Social media platforms use AI to <b>monitor</b> harmful behavior.
6.	Translate Ukrainian to English:
	• Ландшафт
	• Анонімність
	• Жорстокість
	• Загроза
	• Розповсюджувати
	• Технологія

<ul> <li>Репутація</li></ul>
7. Explain this word in English without using the given word itself.
• Insidious
Pervasive
• Escalate
8. Fill in the blanks with the necessary words in the box.
escalate harass compromise disseminate monitor infiltrate
1) Online bullies often their attacks when they find a vulnerable target. 2) Social media platforms use AI to harmful behavior and content. 3) Cybercriminals can malicious content rapidly through various online channels. 4) Malicious actors can systems and spread malware undetected. 5) It is easy for bullies to individuals repeatedly online due to the anonymity provided by the internet.
9. Complete the sentences using Passive verb forms.
1) Many people (harass) online through social media platforms. 2) AI-generated images (use) to bully individuals in various ways. 3) Victims (target) by hundreds of online bullies can feel overwhelmed. 4) Online harassment (combat) by implementing stronger cybersecurity measures. 5) Sensitive information (compromise) during a cyber attack. 6) Thousands of harmful messages (send) to victims by automated bots. 7) Social media accounts (monitor) by AI to detect abusive behavior. 8) The severity of online harassment (highlight) in recent studies.
10. Complete the text using Passive verb forms.
Bots designed to harass people are a growing problem in the digital age. These bots (program) to send abusive messages and (deploy) on social media platforms to target individuals. Often, these bots (create) to mimic real users, making them harder to detect. Victims (bombard) with hateful comments and threats, which can lead to severe emotional distress. To combat this issue, advanced AI

eff	stems (develop) to identify and block these malicious bots. Despite these forts, many harmful messages still (deliver) to unsuspecting users, showing at more robust solutions are needed.
	11. Complete the sentences using appropriate modal verbs.
*	Victims of online harassment (should) seek support from trusted individuals or organizations.
*	Social media platforms (must) enforce stricter policies to prevent cyberbullying.
*	Harmful behavior (can) be reported by users to make platforms safer.
÷	Everyone (ought to) respect others' privacy and personal boundaries online.
*	Governments (might) introduce new laws to combat cybercrime effectively.
	12. Use relative clauses to complete the sentences.
*	Cyberbullies, (who) often hide their identities, target vulnerable individuals.
	Victims (whose) accounts are hacked feel violated and unsafe.
	The online platforms (where) cyberbullying occurs are often the ones least equipped to deal with it.
*	Bots (which) send hateful messages are programmed to mimic human
	interactions.
*	Measures (that) aim to protect online users are not always effective.
	13. Rewrite these sentences in reported speech.
*	"We will introduce stronger policies to combat cyberbullying," said the social media manager.
*	The victim stated, "I feel overwhelmed by the constant harassment."
*	"Everyone should be aware of the risks of sharing sensitive information online," the cybersecurity expert advised.
*	The researcher explained, "Bots have become more sophisticated in imitating real users."
*	"We need to develop better AI systems to detect malicious activity," the team leader
	suggested.
	14. Complete the sentences using conditional forms.
*	If victims (report) harassment immediately, they might receive timely support.
*	Cyberbullying (decrease) significantly if stricter regulations were enforced.
*	If bots (not identify) quickly, they will continue to harm users.
	Social media platforms (be able to prevent) cyberbullying if they invested in
•	advanced AI technologies.

*	If everyone (educate themselves) on online safety, fewer people would fall victim to cyber attacks.
	15. Fill in the blanks with appropriate prepositions.
* * *	Individuals are often targeted social media platforms by anonymous users.  Online safety can be improved strengthening privacy settings.  Many people feel overwhelmed the scale of cyberbullying.  Victims must always report abusive behavior the platform administrators.  Awareness campaigns can help prevent harassment online communities.
	16. Choose the correct form of the verbs in these sentences.
*	The cyberbully (has sent/sent) hundreds of abusive messages before their account was blocked.
*	Victims (are receiving/receive) support through helplines and online networks.
	AI systems (detects/detect) harmful behavior on social media platforms. Thousands of harmful messages (were delivered/deliver) by automated bots last week.
*	Social media accounts (monitor/are monitored) to ensure compliance with community guidelines.
an	17. Write an open letter to a school or company about preventing cyberbullying d supporting victims. Word count: 180–220 words.

## UNIT 29. The influence of Internet standards of beauty

## TASKS:

## 1. Read the text and briefly write its meaning.



In the age of social media, the internet has become a powerful force in shaping our perceptions of beauty. Beauty trends spread like wildfire across platforms, creating an almost unattainable standard that many strive to emulate. These trends, often curated and propagated by influencers and celebrities, can profoundly affect individuals, reshaping their views on what is considered beautiful. The consequences of this digital beauty culture are far-reaching, affecting mental health, promoting overconsumption, and fostering a relentless pursuit of perfection.

The internet's beauty standards are not just trends; they are dictating how we see ourselves and others. Filters, photo-editing apps, and carefully curated images present an illusion of flawlessness that is nearly impossible to achieve in real life. As a result, individuals often find themselves trapped in a cycle of comparison and self-criticism. The constant exposure to these idealized images can lead to a distorted body image, where people perceive themselves as falling short of the beauty norms set by the online world.

This relentless comparison can have severe mental health repercussions. Many individuals experience anxiety and depression as they struggle to meet these unrealistic standards. Eating disorders such as anorexia and bulimia can also be triggered or exacerbated by the pressure to conform to a certain body type. The symptoms of these mental illnesses are debilitating: constant preoccupation with weight and appearance, extreme dieting, binge eating, and an overwhelming sense of inadequacy. The internet's beauty standards can thus trap individuals in a vicious cycle of unhealthy behaviors and thoughts, constantly chasing an illusion of perfection.

Moreover, the internet's beauty trends fuel a culture of overconsumption. The latest skincare routines, makeup products, and fashion trends are incessantly promoted, encouraging individuals to buy more and more in the pursuit of beauty. This constant

bombardment of new products and trends creates an insatiable desire for the next best thing, leading to financial strain and a sense of emptiness. The beauty industry thrives on this overconsumption, with marketing strategies designed to exploit insecurities and create a perpetual state of dissatisfaction.

The emotional toll of chasing internet beauty standards cannot be overstated. The pressure to look a certain way, to have the perfect skin, the ideal body, and the trendiest clothes, can lead to burnout and a diminished sense of self-worth. People start to lose sight of their intrinsic value, equating their worth with their appearance. This superficial valuation of self can erode self-esteem and make individuals more susceptible to mental health issues.

The influence of internet beauty standards extends beyond personal impact; it shapes societal norms and values. As these trends become ingrained in our culture, they perpetuate a narrow definition of beauty that excludes diversity and individuality. This homogenized view of beauty marginalizes those who do not fit the mold, leading to social exclusion and stigmatization.

In conclusion, the internet's standards of beauty are reshaping our perception of what it means to be beautiful, often with detrimental effects on mental health and well-being. The pursuit of these unrealistic standards can lead to anxiety, depression, eating disorders, and overconsumption. It's crucial to recognize the emotional and psychological toll of these trends and to promote a more inclusive and realistic view of beauty. By fostering self-acceptance and celebrating diversity, we can begin to counteract the negative influence of internet beauty standards and create a healthier, more balanced perspective on beauty.

1) How do internet beauty trends influence our perception of beauty?
2) What are some of the mental health repercussions of trying to meet unrealistic online beauty standards?
3) How does the pursuit of internet beauty standards contribute to overconsumption?
4) What are some of the symptoms of mental illnesses that can be triggered by online beauty pressures?

5) How can promoting self-acceptance and diversity help counteract the negative influence of internet beauty standards?
3. The sentence is True or False.
<ol> <li>Internet beauty standards often promote realistic and attainable body images.</li> <li>The pressure to conform to online beauty trends can lead to mental health issues like anxiety and depression.</li> <li>Filters and photo-editing apps contribute to a distorted body image by presenting an illusion of flawlessness.</li> <li>Overconsumption in the beauty industry is fueled by the constant promotion of new products and trends.</li> <li>The pursuit of internet beauty standards does not affect an individual's self-worth and self-esteem.</li> <li>Promoting self-acceptance and diversity can help counteract the negative effects of internet beauty standards.</li> </ol>
4. Translate the following English units into Ukrainian.  1) Spread like wildfire- 2) Trapped in a cycle- 3) Relentless pursuit of perfection- 4) Distorted body image- 5) Vicious cycle- 6) Emotional toll-
5. Give synonyms to the words in <u>bold</u> type.
1) Beauty trends spread like <b>wildfire</b> across platforms, creating an almost unattainable standard.
2) The internet's beauty standards can profoundly <b>affect</b> individuals, reshaping their views on what is considered beautiful.
3) The constant exposure to these idealized images can lead to a <b>distorted</b> body image.
4) The pursuit of these unrealistic standards can lead to <b>anxiety</b> and depression.

6. Translate Ukrainian to English:   • Краса  • Переслідування  • Тиск  • Зовнішність  • Нездоровий  • Самоцінність  7. Explain this word in English without using the given word itself.  • Exacerbated  • Homogenized  • Perpetuate  8. Fill in the blanks with the necessary words in the box.  anxieties consequences perception diversity consumed distorted standards pursuit	5) This constant bomb for the next best thing	pardment of new produ ;.	icts and trends crea	tes an <b>insatiabl</b>	e desire
<ul> <li>Переслідування-</li> <li>Тиск-</li> <li>Зовнішність-</li> <li>Тенденція-</li> <li>Нездоровий-</li> <li>Самоцінність-</li> </ul> 7. Explain this word in English without using the given word itself. <ul> <li>Exacerbated-</li> <li>Homogenized-</li> </ul> 9. Perpetuate- <li>8. Fill in the blanks with the necessary words in the box.</li> anxieties consequences perception diversity	6. Translate Uk	rainian to English:			
<ul> <li>Переслідування-</li> <li>Тиск-</li> <li>Зовнішність-</li> <li>Тенденція-</li> <li>Нездоровий-</li> <li>Самоцінність-</li> </ul> 7. Explain this word in English without using the given word itself. <ul> <li>Exacerbated-</li> <li>Homogenized-</li> </ul> 9. Perpetuate- <li>8. Fill in the blanks with the necessary words in the box.</li> anxieties consequences perception diversity	<ul> <li>Kpaca-</li> </ul>				
<ul> <li>Тиск</li></ul>	• Пересліду	<i>Р</i> вання <b>-</b>			
<ul> <li>Зовнинсть- <ul> <li>Тенденція-</li> <li>Нездоровий-</li> <li>Самоцінність-</li> </ul> </li> <li>7. Explain this word in English without using the given word itself.</li> <li>Exacerbated- <ul> <li>Homogenized-</li> </ul> </li> <li>Perpetuate-</li> </ul> <li>8. Fill in the blanks with the necessary words in the box.  <ul> <li>anxieties consequences perception diversity</li> </ul> </li>	<ul> <li>Tucκ</li> </ul>				
<ul> <li>Тенденція-         <ul> <li>Нездоровий-</li> <li>Самоцінність-</li> </ul> </li> <li>7. Explain this word in English without using the given word itself.</li> <li>Exacerbated</li></ul>	• Зовнішніс	ть			
<ul> <li>Самоцінність</li></ul>	• Тенденція	!			
7. Explain this word in English without using the given word itself.  • Exacerbated	<ul> <li>Нездоров</li> </ul>	ий			
<ul> <li>Exacerbated</li></ul>	• Самоцінн	iсть			
Homogenized      Perpetuate  8. Fill in the blanks with the necessary words in the box.  anxieties consequences perception diversity	•				
Perpetuate      R. Fill in the blanks with the necessary words in the box.      anxieties consequences perception diversity	• Exacerbated-				
anxieties consequences perception diversity	Perpetuate				
	anxieties	consequences	perception	diversity	
		beauty have	created almost una	ttainable goals f	for many
1) The internet's beauty have created almost unattainable goals for many		osure to idealized imag	es can lead to a	hody ima	ige
people.	3) The relentless	of perfection	can take a signific	ant toll on men	tal health.
people.  2) Constant exposure to idealized images can lead to a body image.	4) Online beauty	trends have reshaped	our of wh	at is considered	
people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.	attractive.	1			
people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.  4) Online beauty trends have reshaped our of what is considered		t these unrealistic stan	dards can lead to ir	creased	and
people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.  4) Online beauty trends have reshaped our of what is considered attractive.  5) Trying to meet these unrealistic standards can lead to increased and	depression.				
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people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.  4) Online beauty trends have reshaped our of what is considered attractive.  5) Trying to meet these unrealistic standards can lead to increased and depression.  6) The pressure to look a certain way often results in overconsumption, as people					22
people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.  4) Online beauty trends have reshaped our of what is considered attractive.  5) Trying to meet these unrealistic standards can lead to increased and depression.  6) The pressure to look a certain way often results in overconsumption, as people are by the need to buy more products.			can help count	eract the negati	ve effects
people.  2) Constant exposure to idealized images can lead to a body image.  3) The relentless of perfection can take a significant toll on mental health.  4) Online beauty trends have reshaped our of what is considered attractive.  5) Trying to meet these unrealistic standards can lead to increased and depression.  6) The pressure to look a certain way often results in overconsumption, as people are by the need to buy more products.  7) Promoting self-acceptance and can help counteract the negative effects	of internet beauty tren	nds.			

8) The	of internet beauty standards can have severe mental healt
consequences for	
9. Complet	e the sentences with the correct form of the verbs in brack

## 9. Complete the sentences with the correct form of the verbs in brackets (Mixed Conditionals).

1. If she had studied computer science, she (have) a great job in tech now.
2. We wouldn't be late if we (leave) earlier.
3. If I (know) about the deadline, I wouldn't be so stressed now.
4. They'd have saved the files if they (back up) their data regularly.
5. If he spoke better English, he (get) the job last year.
6. I wouldn't feel so tired now if I (go) to bed earlier.
7. If we (install) the antivirus last week, the system would be working now.
8. She (travel) abroad last summer if she had enough money.
9. If you hadn't skipped the training, you (understand) how this system works
10. My code would be running perfectly now if I (fix) the bug yesterday.

## 10. Rewrite the sentences using a mixed conditional structure.

- 1. I didn't finish the project, so I'm not presenting today.
- 2. If I had finished the project, I would be presenting today.
- 3. He isn't good at math, so he didn't pass the test.
- 4. She was late, so she's not allowed to join the webinar now.
- 5. I don't know how to program, so I didn't apply for the position.
- 6. They didn't sign up for the course, so they don't have access now.
- 7. He doesn't know her number, so he didn't call her.
- 8. I forgot the password, so I can't log in now.
- 9. They didn't listen to the instructions, and now they're confused.
- 10. She doesn't live in the city, so she missed the event yesterday.
- 11. We didn't save the document, and now we can't find it.

# 11. Write 5 sentences explaining what could happen if someone neglects their online privacy. Use the second conditional (e.g., "If people ignored privacy settings, they could expose sensitive information"). Reflect on possible consequences related to the level of exposure.

- 12. Create a dialogue between two friends discussing cyberstalking. Use reported speech to demonstrate how one friend reports a suspected event (e.g., "She told me that someone was following her online"). Include at least 5 exchanges in the dialogue.
- 13. Describe a scenario in which someone avoids being stalked online. Use modal verbs to express advice and necessity (e.g., "You should double-check your settings" or "You must not share your location publicly"). Write the scenario in 5 to 7 sentences.
- 14. Write 6 sentences about how individuals can protect their privacy using past perfect tense to describe actions taken (e.g., "Before realizing the risks, they had already shared too much information"). Include examples relevant to the topic.
- 15. Create a short story in 8 sentences where someone resolves an issue of cyberstalking. Include at least one sentence using passive voice (e.g., "Her account was hacked by someone she didn't know") and focus on the resolution process.
- 16. Write 5 sentences explaining why stalking is a global issue and what measures governments might take. Use conditional sentences (both first and second conditionals) to suggest possible actions (e.g., "If governments enforced stricter regulations, fewer people would fall victim to stalking").
- 17. Write a blog post exploring how social media affects people's self-esteem and body image. Word count: 170–200 words.

## UNIT 30. Persecution/Stalking

### TASKS:

## 1. Read the text and briefly write its meaning.



In the interconnected world of the internet, the dark shadow of persecution and stalking has become alarmingly easy to cast. With just a few clicks, a stalker can gain access to an overwhelming amount of personal information, making the digital landscape a perilous place for those who find themselves targeted. The ease with which one can track another's online presence is both astonishing and terrifying, underscoring the urgent need for vigilance and self-protection.

The internet, for all its wonders, has inadvertently provided a fertile ground for stalkers. Social media platforms, where users freely share snippets of their lives, can become a virtual treasure trove of information. Photos, check-ins, status updates, and even comments can be pieced together to create a disturbingly detailed picture of someone's daily routine. It's as if the walls of privacy have crumbled, leaving individuals exposed to the prying eyes of those with malicious intent.

If you suspect that you are being stalked, the first step is to take a deep breath and remain calm. It's easy to feel overwhelmed and powerless, but there are practical steps you can take to protect yourself. First and foremost, review your social media privacy settings. Ensure that your profiles are set to private, and be mindful of the information you share publicly. Limit the audience for your posts and avoid sharing your location in real time.

In addition to tightening privacy settings, it's crucial to be vigilant about your online presence. Regularly search your name and review what information is publicly accessible. If you find anything that compromises your privacy, take steps to remove or secure it. Also, be cautious about accepting friend requests or connections from people you do not know personally. A stalker can easily create fake profiles to gain your trust and access your personal information.

Another key aspect of protecting yourself is securing your devices. Use strong, unique passwords for your accounts and enable two-factor authentication wherever possible. This extra layer of security can make it significantly harder for a stalker to access your accounts. Additionally, be wary of phishing attempts and suspicious links, as these can be used to install malware on your devices, giving the stalker access to your personal information.

If you believe you are being actively stalked, document everything. Keep records of any unwanted contact, whether it's emails, messages, or social media interactions. This documentation can be invaluable if you decide to involve law enforcement. Speaking of which, do not hesitate to report your suspicions to the authorities. Stalking is a serious crime, and law enforcement agencies have the tools and expertise to help protect you.

Emotionally, the experience of being stalked can be incredibly draining. It's important to reach out for support. Talk to friends, family, or a mental health professional about what you're going through. Isolation can amplify fear and anxiety, but having a support system can provide much-needed strength and reassurance.

In conclusion, while the internet has made it frighteningly easy for stalkers to invade our lives, we are not powerless. By being proactive about our online security and privacy, we can create barriers that make it much harder for stalkers to succeed. Remember, you have the right to feel safe and secure, both online and offline. Stay vigilant, protect your personal information, and don't hesitate to seek help if you feel threatened. Together, we can build a safer digital world where everyone can enjoy the benefits of the internet without fear.

1) How has the internet made it easier for stalkers to gain access to personal information?
2) What are the first steps you should take if you suspect you are being stalked online?
3) Why is it important to regularly review your social media privacy settings and online presence?

4) What are some methods to secure your online accounts and devices from potential stalkers?
5) Why is it important to document unwanted contact and involve law enforcement if you believe you are being stalked?
3. The sentence is True or False.
1) Social media platforms provide limited information that stalkers can access about their targets.
2) Setting your social media profiles to private is an important step in protecting
yourself from online stalkers.  3) Regularly searching your name online and reviewing publicly accessible
information can help protect your privacy.
4) Accepting friend requests from people you do not know personally can enhance
your online security.
5) Using strong, unique passwords and enabling two-factor authentication can make it harder for stalkers to access your accounts.
6) Documenting unwanted contact and reporting it to law enforcement is
recommended if you believe you are being stalked.
4. Translate the following English units into Ukrainian:
1) Dark shadow of persecution
2) Prying eyes
3) Virtual treasure trove
4) Walls of privacy have crumbled
5) Take a deep breath
6) Amplify fear and anxiety
5. Give synonyms to the words in <u>bold</u> type.
1) The internet has inadvertently provided a <b>fertile</b> ground for stalkers.

2) Social media platforms can become a virtual **treasure trove** of information.

3) It's important to remain <b>vigilant</b> about your online presence.						
4) Use strong, <b>unique</b> passwords for your accounts.						
5) Isolation o	an amplify fear and	anxiety when being	stalked.			
6. Translate l	J <b>krainian into Engli</b>	sh.				
• Пепес	лідування					
• Аноніл	мність					
• Прива	тність					
• Інфор	мація					
<ul><li>Вразла</li></ul>	ивість					
• <i>Аутен</i>	тифікація					
• Докум	ентація					
-	nis word in English v			-		
• Inadve	ertently			_		
• Circui	nvent			-		
secure		surveillance	vulnerabilities	7		
anonymity	compromise	malicious	personal			
2) Ensuring your ac safety.	ecounts are	with strong passwor	tforms to track their tards is crucial for online	rgets.		
3) The feeling of	provided by the	he internet can emb	olden stalkers.	tion		
5) Stalkers can use	software to	_ of any unwanted	contact to help authori	nes.		
6) Sharing too muc	software to h informatio	on online can make	vou vulnerable to stalk	ing		
6) Sharing too much information online can make you vulnerable to stalking. 7) Regularly updating your software can help protect against attacks.						
			counts without permiss	sion.		

9. Complete the sentences with a correct word of the type in brac	kets.
(Use your own words or choose from teacher-provided word banks.)	

1. I need a new for storing large amounts of data. (noun)
2. Can you the software before tomorrow's meeting? (verb)
3. The interface was very and easy to understand. (adjective)
4. She explained the issue very (adverb)
5. The laptop is under the desk, not it. (preposition)
7 asked for admin rights, but I refused. (pronoun)
8. There are reasons why we rejected the update. (determiner)
9! That's not the right password! (interjection)
10. You update your password every 60 days. (modal verb)
10. Fill in each blank with an appropriate word that matches the part of
speech in brackets.
1. She works as a freelance for a tech magazine. (noun)
2. Pleaseyour password before logging in again. (verb)
3. That was an extremely workshop. (adjective)
4. They answered the technical questions (adverb)
5. The email came from a fake address, not the official one. (preposition)
6. You can upload the file now, wait until it's verified. (conjunction)
7 told me that the files were corrupted. (pronoun)
8. I found errors in the code this morning. (determiner)
9. Yikes! I just formatted the wrong drive! (interjection)
10. You not share your login credentials with anyone. (modal verb)
11. Fill in the blanks using the correct form of the verbs in parentheses.
a. If you (be) careful, you won't fall for online scams.
b. I (never/see) such a realistic phishing email before.
c. While he (browse) the website, he noticed some suspicious pop-ups.
d. You must (update) your antivirus software regularly.
e. If hackers (gain) access to your data, it could be disastrous.
c. If fluctors (gain) access to your data, it could be disastrous.
12. Complete the sentences with the correct modal verb.
a. You turn off your webcam when not in use.
b. It's essential that you create strong, unique passwords.
c. Hackers steal personal information through fake websites.
d. I send the document yesterday, but the internet was down.
e. You be joking if you think this platform is 100% secure!
c. 104 oc joking it you tillik tills platform is 100/0 secure:

## 13. Rewrite the following sentences in passive voice.

- a. The IT team is updating the security software.
- b. Someone sent the email from an encrypted server.
- c. Hackers have stolen the company's private data.
- d. The administrator will activate your account tomorrow.
- e. They are investigating the source of the suspicious traffic.

## 14. Match the sentence halves to form complete conditional sentences.

a. If you use a public Wi-Fi network,
b. Unless you enable two-factor authentication,
c. Your data will be safe
d. If phishing emails weren't so convincing,
e. Imagine what would happen
i. you might accidentally reveal sensitive information.
ii. hackers would have a harder time stealing identities.
iii. if your password were shared publicly.
iv. if you use strong encryption methods.
v. your account could be compromised.
15. Choose the correct preposition to complete the sentences.
a. The warning message appeared the screen. (in/on/at) b. You should never share your password email. (through/by/via) c. The attachment was disguised an invoice. (as/like/for)
d. She uploaded the file the wrong folder. (on/into/at)
e. He wrote a blog post the dangers of weak passwords. (about/in/of)
16. Identify the error in each sentence and correct it.
a. He don't trust links in unsolicited emails.
b. I've downloaded the file yesterday.
c. Two-factor authentication are essential for account security.
d. The website looked like legitimate, but it was fake.
e. You must to update your browser to avoid vulnerabilities.

# 17. Write an information leaflet for teenagers on how to recognize and respond to online stalking. Word count: 160-190 words.

## SELF-STUDY PRACTICE

## Unit 1. Living in a digital age

1. Com			ite using the words from	the box.
		processor online do		
	digital built-in	store personal mon	itor data	
4 of 4 r	people found the follo	owing review helpfu	ı1·	
	f 5 stars: <b>The best pr</b>			
12 Feb		oressional aptop	THE HILLIACE	
	binson – See all my r	eviews		
			I've been very happy w	vith it so far.
			ring the computer to (1)	
faster than e	arlier MacBook mode	els; the 160GB hard	drive is large enough to	(2)
all of my mu	usic, photos and vide	os; and I didn't eve	n need to buy an externa	al (3)
			for long periods of time	
			mera; it can be used for	
make video	podcasts, or even jus	st to take (5)	_ photos. Software upda	ites are easy,
too: if you'	re (6) – just	t surfing the Web	or checking email - an	ıd an update
			nt to (7) the update	
			about security either.	
			Apple's Safari web brow	
			redit card numbers, usin	
I had to buy	a convert Microsoft	Office 2008 in the e	(10), such as Micand, which cost an extra	fosoft word.
	student discount!	Office 2008 in the e	iiu, wiiicii cost aii extra .	199.93 – and
mai s wiin a	student discount:			
2. Look	at these extracts fro	m various websites.	Are the words in bold v	erbs, nouns,
adjectives o				
	k here to begin your			
	nload the MP3 file n			
	now by visiting our s			
	will not <b>store</b> your de		14 days.	
	k here for an <b>online</b> d			
	online by clicking he			
	ose the correct verb t			
1	texts calls	<del>4.</del>	uata records	
3.	transaction	3• 1S	iccords	
<b>.</b>	transaction			
4. Com	plete these extracts j	from websites usinį	g collocations from Exe	ercise 3. Use
the correct v	verb forms.			
1. We v	will not		of your online act	ivities.

2.	Ine	Loyota	Prius	nas	a	built-in	monitor	which	
		al	out you	r locat	ion,	speed an	d fuel cons	sumption.	
3.	Skype	lets you	-			_		_	over the Internet
for free									
4.	With	our latest	online ta	ariff, y	ou c	an			
to your	friend	s for free.							
5.	Our	secure s	server a	allows	yo	u to _			
		with	absolut	e confi	iden	ce.			

## **Unit 2. Computer essentials**

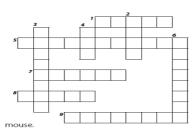
- 1. Look at these extracts from reviews on a consumer website. Which piece of hardware is each extract describing?
- 1. Available in 15" or 21" models, ...
- 2. With both wired and wireless versions to choose from, ...
- 3. ... you can back up over 4GB of data in minutes.
- 4. ..., and the pages per minute increases for black and white jobs.
- 5. ... surprisingly at this price, it even works in very low light conditions.
- 2. Complete the crossword using the words.

## ACROSS

- 1. The data that goes into a computer.
- 5. Often attached to the computer via a USB connector.
- 7. Information from the computer, presented on the monitor, through the speakers or on the printer.
- 8. Hard or DVD.
- 9. The physical parts of a computer.

#### **DOWN**

- 2. A socket on the computer for an external device.
- 3. Probably the most used input device, along with the mouse.
- 4. Otherwise known as the 'brain' of the computer. (Abbreviation)
- 6. Programs, for example Microsoft Word or Apple iTunes.



- 3. Look at these extracts from emails to an online helpdesk. Which type of computer is each person talking about?
  - 1. I dropped it as I was getting out of a taxi, and now it won't turn on.

- 2. I lost the stylus. Is it safe to use a pencil to input directly onto the screen?
- 3. As soon as it went offline, every PC on the network crashed.
- 4. I was rotating the screen round to show something to a colleague, and now it won't move.
- 5. Can you send someone down to show me the best position for my monitor and keyboard? I want to avoid getting any back or neck problems. Now listen to the sentences.

### 4. Which prepositions are used with the following words?

1. classify 3. consist 5. class

2. divide 4. Type

## 5. Complete this description of a basic PC system using the words from the box.

	into classes type consists div	ıded	
A basic PC s	ystem can be (1) into two	main parts: hardwa	are and software.
Software basically	y means computer programs; for	example, your m	edia player is a
(2) of sof	tware. Hardware, on the other ha	and, (3) of	mechanical and
electronic equipm	ent. It can be divided (4)	three main types	the CPU, main
memory and perij	oherals. There are three main (5)	of peripher	al: input devices
(keyboard, mouse	etc.), output devices (monitor, pri	nter, etc.) and stora	ge devices (DVD
drives, flash drive	s, etc.).		

#### Unit 3. Inside the system

## 1. Are these sentences true or false?

- 1. RAM stands for Random Access Memory.
- 2. If memory is *volatile*, it means that information is lost when the computer is turned off.
  - 3. RAM is non-volatile.
  - 4. ROM is volatile.
  - 5. DIMMs can be used to expand RAM capacity.

### 2. For each abbreviation, write the correct unit of memory.

1. TB 3. MB 5. B

2. GB 4. KB (or K) 6. b

### 3. Now complete these sentences using a unit of memory from Exercise 2.

- 1. A is the smallest unit of memory, equivalent to a single character. Eight of these make a .
  - 2. A is approximately one million bytes.
- 3. One of the largest units of memory is a equivalent to all the books in a large library.
  - 4. A DVD-RW can usually store 4.7 of data.
  - 5. A is around 1000 bytes.

- 4. Complete the rules for defining relative clauses.
- 1. We use the relative pronoun to refer to people.
- 2. We use the relative pronoun to refer to things.
- 3. We can use to replace which and who.
- 4. Relative pronouns can be left out when they are the of the relative clause, for example: The amount of memory (that) you need depends on how many programs you want to run at the same time.

Then make defining relative clauses.		5. Complete these definitions from an ICT dictionary using the terms from the	ie box.
	Then	make defining relative clauses.	

chip buses central processing unit clock speed control unit

1. The, or CPU, is like a 'brain' performs tasks for your computer.

conversation with the sales assistant using the words from the box.

- 2. The CPU is built into a single executes program instructions and coordinates activities within the system.
- 3. The is the part of the processor is responsible for loading and interpreting the individual instructions that make up a computer program.
- 4. is measured in gigahertz; for example, a processor running at 4Ghz would give you all the performance you need to run most applications.
  - 5. are electrical channels allow devices inside the computer to communicate.

# Unit 4. Buying a computer 1. Nick has gone to his local computer shop to buy a new laptop. Complete his

running storage lighter feature any bigger for	
got specs more cost cheaper both	
Shop assistant: Hello there! Do you need (1) or are you just taking	; a
look around?	
Nick: Actually, yes – I could use a hand. I'm looking (2) a new lapto	p.
Have you (3) any that are really trustworthy? Mine has been nothing b	
trouble lately.	
Shop assistant: Sure thing. That depends on your price range, but we do have tw	VΟ
models on offer – the Acer Aspire 4920 and the Samsung R60.	
<b>Nick:</b> OK. And how do these two compare? Are the (4) pretty much	зh
the same?	
Shop assistant: The Samsung is more of a basic model. It's got a Pentium Dual Co	
processor (5) at 1.4GHz – suitable for most everyday uses, but not ideal f	or
high-performance gaming. The Acer, on the other hand, has a 2GHz processor and doub	
the RAM — that's 2GB instead of just 1GB.	
Nick: Right. What about (6) space?	
Shop assistant: The Samsung provides 80GB, whereas the Acer comes with 250G	В.
<b>Nick:</b> That's quite a difference. Is there (7) else I should know?	

Bluetooth. They also come pre-installed with Wind DVD writers, which makes saving files simple. Th screen, and it's (11) in weight, so it' Nick: Sounds good. What do they (12) Shop assistant: Let me check. The Samsun priced at £439.97, while the Acer is £769.97. Engowerful.	e Acer has a slightly (10)? shandier if you'll be traveling with it? g is significantly (13)
Nick: Hmm, that's a bit too much for me. I the	nink I'll go with the Samsung.
<ol> <li>Which categories do these sentences from 1. Do they have similar specs?</li> <li>It has a Pentium Dual Core processor runn 3. The Acer also has twice as much RAM as 4. And what's the storage capacity of each m 5. The Acer has a slightly bigger screen, and 6. The Samsung is quite a bit cheaper than th 7. The Acer's processor runs at 2Ghz.</li> <li>The Acer is much more powerful.</li> </ol> Unit 5. Type, clic <ol> <li>The following extracts come from sales as</li> </ol>	ing at 1.4Ghz. the Samsung. odel? it's lighter. e Acer.  k and talk! ssistants in computer shops describing
the features and functions of various input device	cas Complete the sentences using the
words from the box and then choose which device	e they're talking about.
to can which allows used but to can will be sufficient to can which allows used but to can will be allowed by the	e they're talking about.  by features works for
to can which allows used by a backlight in the dark.	e they're talking about.  by features works for  ght, so you can see what you're typing
1. This model a backlight in the dark. 2. We have a Bluetooth version which surface you use it on needs to be dark.	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the
1. This model a backlight in the dark. 2. We have a Bluetooth version which surface you use it on needs to be dark.	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the
to can which allows used by  1. This model a backling in the dark.  2. We have a Bluetooth version which surface you use it on needs to be dark.  3. Why don't you try this? It's pen and paper.	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a
to can which allows used by  1. This model a backling in the dark.  2. We have a Bluetooth version which surface you use it on needs to be dark.  3. Why don't you try this? It's pen and paper.	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a
to can which allows used by  1. This model a backlight in the dark.  2. We have a Bluetooth version which surface you use it on needs to be dark.  3. Why don't you try this? It's pen and paper.  4. You'll need one of these – it's movements while you play.	ght, so you can see what you're typing without wires, but the drawing, as if you were using a to control your
to can which allows used by  1. This model a backlight in the dark.  2. We have a Bluetooth version which surface you use it on needs to be dark.  3. Why don't you try this? It's pen and paper.  4. You'll need one of these — it's movements while you play.  5. For more precision, I'd recommend this.	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it
1. This model a backlight in the dark. 2. We have a Bluetooth version which surface you use it on needs to be dark. 3. Why don't you try this? It's pen and paper. 4. You'll need one of these — it's movements while you play. 5. For more precision, I'd recommend this. I works running your hand over the	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it e plastic ball here.
to can which allows used by  1. This model a backlight in the dark.  2. We have a Bluetooth version which surface you use it on needs to be dark.  3. Why don't you try this? It's pen and paper.  4. You'll need one of these — it's movements while you play.  5. For more precision, I'd recommend this. I works running your hand over the fermion of the service of the se	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it e plastic ball here.  you
1. This model a backlight in the dark. 2. We have a Bluetooth version which surface you use it on needs to be dark. 3. Why don't you try this? It's pen and paper. 4. You'll need one of these — it's movements while you play. 5. For more precision, I'd recommend this. works running your hand over the 6. This is our most popular model. It reproduce exact copies of your documents in digit	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it e plastic ball here.  you  al format.
to can which allows used by the can be can be called a c	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it e plastic ball here.  you  al format.
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to can which allows used by the can be can be called a c	e they're talking about.  by features works for  ght, so you can see what you're typing  without wires, but the  drawing, as if you were using a  to control your  It's like an upside-down mouse, and it e plastic ball here.  you  al format.  write directly onto

Answer: Just hit			
2. Question: How can I delete a letter or word that I've typed?			
Answer: Position the cursor after the letter or word and hit once per letter.			
3. Question: Do I have to use the mouse to navigate around my document?			
Answer: No, you can also use the keys.			
Answer: No, you can also use the keys. 4. Question: How can I type in UPPER CASE characters?			
Answer: If you want to type one or two letters in upper case, then simply hold down and type the letters at the same time. If you want to type a whole			
sentence in upper case, you should use			
3. Complete this call to a helpdesk using the words from the box.			
click double-click (x2) drag select			
<u> </u>			
Caller: Hello, can you help? I've lost a really important document. I deleted it by			
mistake, and now it's gone!			
Helpdesk operator: OK, don't panic. Just (1) on the Recycle Bin icon on			
your desktop.			
Caller: It's not working!			
Helpdesk operator: Don't worry. It won't open if you only (2) on it once.			
Just try again.			
Caller: OK, it's open now. Oh there's the file.			
<b>Helpdesk operator:</b> Right, just (3) it with the mouse and (4) it back to the My Documents folder. Then just (5) on the file to open it and check			
it's OK.			
Unit 6. Capture your favourite image			
1. Which piece of hardware would you need for the following tasks?			
1. You need to email a copy of a letter that you received in the post.			
2. You want to a make a video of a friend's wedding.			
3. You want to take some photos while on holiday.			
3. For want to take some photos while on noneay.			
2. These extracts all come from a product description of a scanner. Decide if each			
extract is expressing a fact or an opinion.			
1. We think that you'll agree that the extraordinarily thin Scantech ODB25 is the			
obvious choice for			
2 a single USB cable connected to your computer is the only lead you need.			
3. Despite its diminutive size, you'll find that the ODB25 is big on resolution.			
4 the 1200 x 2400dpi and 48 bit colour depth specification reproduces fine details			
the 1200 A 2400api and 40 off colour depail specification reproduces line details			
5. A 'Scan to PDF' function scans documents straight to PDF			

## 3. Complete this review of a digital camera using the superlative form of the adjectives in brackets.

With 6.0 megapixels and 3x optical zoom, the D930 is (1) (good) the high resolution digital camera available in this price range. You can use the D930 to produce some of (2) (sharp) the images possible and take detailed photos for printing up to poster size. In addition, it has a 3x optical and 5x digital zoom, giving 15x total zoom when combined – (3) (high) the in any digital camera under £50. ASR technology prevents the degradation of image clarity and colour common in flash photography. With ASR, the effects of camera shake are reduced in lower light conditions; you can even take well exposed, sharper pictures in low light without using a flash at all. It guarantees (4) (bright) the and (5) (natural) the pictures possible at this price.

# 4. Choose the correct suffix to change each of these words into an adjective or noun.

1. addition	(adjective)		
2. play	(noun)		
3. control	(noun)		
4. process	(noun)		
5. optimize	(adjective)		
6. power	(adjective)		

# 5. Now complete this review of a digital camcorder using the nouns and adjectives from Exercise 4.

## Unit 7. Display screens and ergonomics

# 1. Complete these display screen specifications using the missing words. The first letter is given.

1. r\_\_\_\_\_\_: 1280x768 2. a\_\_\_\_\_\_ ratio: 16:9 3. s\_\_\_\_\_ size: 19" 4. c\_\_\_\_\_ depth: 16.7 million 5. b : 400 cd/m<sup>2</sup>

- 2. Decide which words are being defined in these extracts from an ICT dictionary.
- 1. One of the small units that make up an image on a computer or television screen. pixel cathode ray tube (CRT)
- 2. Flat-screen technology using noble gases; popular with movie fans.

	1		
video projector plasma screen			
<ol><li>The most common comp</li></ol>	outer display technology, made of two glass plates w	ith	
liquid crystal display (LCD) cathode ray tube (CRT)			
4. Card that plugs into a co	mputer to give it display capabilities.		
video projector video adapter			
5. Device used to show ima	ages on a wall or large screen.		
video projector	video adapter		
3. Complete this extract fro	om a workplace health and safety guide using the w	ords from	
the box. Then use the corr	ect verb forms.	•	
footrest a	sche swivel idea copyholder strain repetitive		
The following guidelines ca	an help you avoid the common pitfalls of daily comp	outer use –	
eve (1) back	(2) and (3) strain injury (F	RSD	

## Unit 8. Choosing a printer

to place under your desk and a tilt and (5)

# 1. Look at these extracts from people talking about printing jobs. Which type of printer is each person talking about?

Position your keyboard correctly: your arms perpendicular to the desk surface

1 "Can you order some more toner for the printer on the third floor?"

a comfortable chair that supports your lower back

It's a good (6) \_\_\_\_\_ to take regular breaks in order to rest your eyes
You from hard copy documents without using a (7)

stand for your screen

Your monitor at, or just below, your head height

to clean your screen regularly

- 2. "The plans for the new office building on Vyner Street are almost ready. Shall I print a copy for the meeting tomorrow?"
- 3. "We're almost out of bar codes. Simon, can you print some more?"
- 4. "I couldn't believe it I was in the middle of printing my report and I ran out of ink!"
- 5. "As soon as the client approves this version, you need to print a high-quality colour copy for them to check."
- 6. "Andrew, can you print off another set of address labels for me?"
- 7. "Lisa, this job's ready to go. Can you output it directly to the printing plates for me?"

# 2 Complete these descriptions of the printers in Exercise 1 using the comparative form of the adjectives in brackets.

- 1. Laser printers are (expensive) than inkjets.
- 2. Thermal transfer printers are (good) for printing bar codes than dot-matrix printers.
- 3. Inkjets are (small) than imagesetters.

for a (4)

at least 50 cm away from the monitor

4. Dot-matrix printers are (noisy) than laser printers.

5. Imagesetters are (convenient) than platesetters, as you still need to print to film before making the printing plates.

### 3. Put these connectors into the correct column of the table.

to begin with since such as because for instance then finally

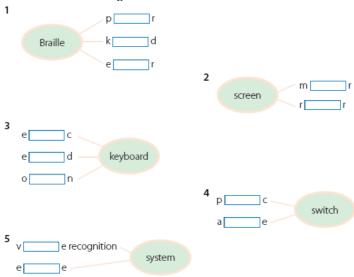
Giving examples	Listing/Sequencing	Giving reason/ cause

# 4. Complete this customer review from a website using the connectors from Exercise 3. There may be more than one possible answer for some of the gaps.

I bought this printer after reading some positive reviews here an	d on other sites.
(1) my budget was only £50, I was looking for something that	would be fine for
day-to-day jobs, (2) printing Word documents and maps f	rom the Internet.
(3), everything worked fine. (4) the problems started	paper jams, error
messages, etc. (5) I had to send it back. It might have just been	a defective model,
but I don't think I'd risk buying one again.	

#### Unit 9. Devices for the disabled

# 1. Put in the missing letters to make noun phrases common to assistive technology. The first and last letters are given.



he table. Put in your choice.	
Blind users	Motor-impaired users
correct terms.	of assistive technology for deaf users with th
	sers see when they have new email or when ther
has been a system error.	
3 are used in a	users to make calls by typing and reading. meetings to summarize what is being said.
	10. Magnetic storage
	a computer shop using the words or phrases fron
the box.	4. 1 1
	te back up don't portable hard shouldn't
platters should ex-	ternal capacity formatted
Sales assistant: Can I help you w	vith anything?
Anna: Yes, please. I need a new (	
	king for an internal drive or an (2) one?
Anna: Well, I need it for moving	
	ve basically got two options. If you need a lot o
	nen you could try this Freecom drive. It (5)
750GB. That's probably enough to (6)	your whole computer many times over
You'd probably have lots of space lef	t for archiving any files that you don't need on
day-to-day basis. This one's £140.	
Anna: That's a little expensive, to	be honest. And I probably don't need 750GB. My
home computer only has a 120GB driv	e! And it looks a bit heavy to carry around.
	need something more (7) This might be
	D160 Ultra-Portable. It's only 20GB, but it's ligh
and relatively cheap – only £80.	
Anna: That sounds perfect. I'll ta	
	dy to use. Just bear a couple of things in mind i
	work a lot. Inside the drive there is a stack of meta
	nformation. (10) move the disk while the
	hear them – or the drive could suffer a (11)
. That's when the $(12)$ head t	touches the disk surface.
Anna: Right, OK. Anything else	I need to know?

Sales assistant: Just a couple of things. You (13) unplug the drive without using the 'Remove hardware' command first. And you (14) check the drive regularly for viruses, especially if you're moving it between machines.  Anna: OK, well thanks for all your help. Now where do I go to pay?				
2. Complete these sentences using			and find data an a distric	
1. The average time it takes the reacalled the	id/write nead	is to move	and find data on a disk is	
2 is another w	yay of saying	sook timo		
3 is the average	ray of saying re speed requ	ired to trans	smit data to the CPU from	
called the	r second.	nea to train	sinit data to the CI O nom	
4. Once formatted, a disk's surface	is organized	l into circu	lar Each	
641 1.41 11-11.11.4.				
5. When a disk is formatted, a		is create	d by the operating system	
to record the location of files.				
6. If you have more than one		on your h	ard drive, you can install	
more than one operating system.				
	Optical sto			
1. Put in the missing letters to make a t	erm related i	to optical si	torage.	
1. optical d				
2. laser b				
3. backward-c				
4. double-s				
5. dual 1				
6. multi-f				
7. Blu-r				
2. Complete these extracts from an ICT	T textbook us	ing the ter	ms from Exercise 1. You	
may have to use the plural form.				
Portable DVD players usually support	t	playbacl	k; this means the user can	
watch a wider variety of different file types (DivX, MP4, etc.).				
2 differ from magnetic ones, in terms of both internal structure and				
storage capacity.				
3. CDs and DVDs are read using a red		In	discs, however,	
it is blue-violet, hence the name.				
4. Unlike a CD, a DVD can beup to 17GB.	and		, giving it a capacity of	
5. DVD drives are	5. DVD drives are, meaning that they can play older technologies			
such as CD-ROMs.			-	

3	I ahol	tho	throo	columns	n1	ftho	table	with	tho	correct	title
J.	Lavei	ıne	ınree	cotumns	u	ıne	iavie	wiin	ıne	correci	uue.

furthermore	however	therefore
besides	although	so
and	whereas	consequently
in addition	but	as a result
moreover	on the other hand	thus
		because

4. Complete these descriptions of optical storage technology using a connector from
Exercise 3. More than one answer may be possible. Then decide if the sentences are
true or false.
1 to CDs and DVDs, there are other types of optical storage; Blu-ray
and HD-DVD, for example.
2. CDs are 120 mm in diameter and 12 mm thick. DVDs,, are 122 mm in
diameter and 12.5 mm thick.
3. DVDs have more tracks, and the pits used to store data are smaller;,
they have a greater storage capacity than CDs.
4. DVDs can be played on CD players, there's no need to invest in new
hardware.
5. Blu-ray may soon become the dominant optical storage technology,
Toshiba, Microsoft and the DVD Forum are supporting HD-DVD technology instead.
Unit 12. Flash memory
1. Choose words from each box to make terms related to flash technology. Writein the
words.
flash smart memory-based state LAN
Hash smart memory-based state LPAIV
card player drive technology card drive
1 GI.
1. flash
2. solid
3. wireless
4. USB
5. flash
0.03
2. Complete these product descriptions using the terms from Exercise 1.
1. With the 4GB Gridfire , you can back up, store, carry and offload large
files with one affordable, convenient device. What's more, means no
moving parts, and therefore less chance of damage if the device is dropped.
2. The 2GB One-Tech is the best choice for high-performance results from
your digital camera and other handheld devices.

3. The STM gives you the ability to carry your files AND your software
3. The STM gives you the ability to carry your files AND your software on a secure USB drive, by using separate partitions to
4. The Airlink connects your desktop PC to a network, using the latest advanced silicon chip technology.
advanced silicon chip technology.
5. With 80GB of storage capacity, the iSing is the only device you'll need
for audio and video playback on the move.
3. Complete these technical specs from an MP4 player. Use a dictionary if necessary.
1. 1GB of solid-state flash memory
2. 1.5" true LCD display.
3. Screen for avoiding scratches.
4. View photos as well as videos. 5 video AMV files as well as audio AAC files.
5 video AMV files as well as audio AAC files.
6 multi music format: MP1, MP2, MP3, WMA, WMV, ASF and WAV.
7. Includes digital voice with up to 36 hours time.
8 FM radio.
9 files direct from the Internet.
10. Standby for power saving.
Unit 13. The operating system
1 What do the following stand for?
1. GUI
2. OS
2. OS 3. WIMP
3. WIMP
<ul><li>3. WIMP</li><li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li></ul>
<ul><li>3. WIMP</li><li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li><li>1. To open a letter that you'd been writing in Word.</li></ul>
<ul> <li>3. WIMP</li> <li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li> <li>1. To open a letter that you'd been writing in Word. document icon program icon</li> </ul>
<ul> <li>3. WIMP</li> <li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li> <li>1. To open a letter that you'd been writing in Word. document icon program icon</li> <li>2. To launch your internet browser software.</li> </ul>
<ul> <li>3. WIMP</li> <li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li> <li>1. To open a letter that you'd been writing in Word. document icon program icon</li> <li>2. To launch your internet browser software. folder icon program icon</li> </ul>
<ul> <li>3. WIMP</li> <li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li> <li>1. To open a letter that you'd been writing in Word. document icon program icon</li> <li>2. To launch your internet browser software. folder icon program icon</li> <li>3. To move up and down through a window.</li> </ul>
<ul> <li>3. WIMP</li> <li>2. Which elements of a GUI would you need to click on to carry out the following tasks?</li> <li>1. To open a letter that you'd been writing in Word. document icon program icon</li> <li>2. To launch your internet browser software. folder icon program icon</li> <li>3. To move up and down through a window. drop-down menu scroll bar</li> </ul>
3. WIMP  2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer.
3. WIMP  2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer. menu bar hard drive icon
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3. WIMP  2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer. menu bar hard drive icon
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2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer. menu bar hard drive icon  5. To find out how much space is left on your C: drive. program icon hard drive icon  3. Complete this extract from a wiki entry about Windows Vista.
2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer. menu bar hard drive icon  5. To find out how much space is left on your C: drive. program icon hard drive icon  3. Complete this extract from a wiki entry about Windows Vista.  Windows Vista is (1) operating system created by Microsoft to be used
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2. Which elements of a GUI would you need to click on to carry out the following tasks?  1. To open a letter that you'd been writing in Word. document icon program icon  2. To launch your internet browser software. folder icon program icon  3. To move up and down through a window. drop-down menu scroll bar  4. To restart or shut down your computer. menu bar hard drive icon  5. To find out how much space is left on your C: drive. program icon hard drive icon  3. Complete this extract from a wiki entry about Windows Vista.  Windows Vista is (1) operating system created by Microsoft to be used on (2) personal computers. Its development wrapped up on November 8,

On January 30, 2007, it was officially launched worldwide for public use and could
also be purchased or downloaded directly from Microsoft. (7) launch of
Vista marked more than five years since (8) debut of Windows XP.
Vista introduced many new features and enhancements. Among the most notable were
(9) redesigned user interface and visual theme known as Windows Aero, an
improved search function, new tools for multimedia creation, and major overhauls in
networking, audio, printing, and display systems. Still, possibly the biggest advancement
was in (10) security. Windows XP had been known for (11)
susceptibility to viruses and malicious software, so it remains to be seen how well Vista
has managed to solve those problems.
4. Decide if these words (which appear in bold in Exercise 3) are countable or
uncountable, depending on how they are used in this context.
1. development
2. public
3. security
4. vulnerability
5. malware
Unit 14. Word processing
1. Type in words from the box to make instructions from Microsoft Word.
left/right table indent picture hyperlink
for right diore indent picture hyperinik
1. Increase/Decrease
2. Insert
3. Insert
4. Insert
5. Align
J. Aligii
2. Decide if these features and functions from Microsoft Word appear on the
Standard Toolbar or the Formatting Toolbar.
1. Typeface
2. Hyperlink
3. Italic/Bold/Underline
4. Print Preview
5. Bullets
6. Columns
7. Undo
8. Open
2 Nathanial is suplaining to his placement. Devil how to get a 24
3. Nathaniel is explaining to his classmate, David, how to set up a Macro on
Microsoft Word. Complete his instructions using the words in the box.
next like right first finally you what everything then
then that

**David:** Nathaniel, I've been asked to set up a Macro to help me edit this document on Word, but I'm not sure how to do it. Actually, I'm not even sure what Macros do. Can you give me a hand?

Nathaniel: Sure. Macros are basically mini-programs that you can set up within a Word document which carry out automated tasks for you. One of the most useful Macros allows you to go through a whole document and delete any accidental double spaces. I'll show you how to do it. (1) , open up any Word document. (2) put in a couple of double spaces between words, just so you can check that it's worked at the end. **David:** OK, I've done (3) now. (4) next? Nathaniel: (5) , you go to *Tools*, *Macros*, (6) click on *Record New* Macro. **David:** (7) this? Nathaniel: That's it. Give the Macro a name like 'Doublespace' – it has to be one word. Once you click OK, Word is recording your actions so that it can replicate them later. So, do the following commands: CTRL + Home – that takes the cursor to the start of the document - Find and replace, Find, then hit the space bar twice to do a double space, then click Replace with and hit the space bar once before clicking Replace all. **David:** Is that (8)

Nathaniel: Yes, that looks good. (9) , press the little red circle on the Macro command, which will stop the recording. The Macro should now be saved under your Macro menu, just hit Run to run it on any Word doc.

**David:** Is that (10) ? Seems quite simple. Thanks, Nathaniel.

### **Unit 15. Spreadsheets and databases**

- 1. Many terms related to spreadsheets and databases are easily confused. Look at these extracts from definitions in an ICT dictionary and decide which word is being defined.
  - 1. The vertical part of a spreadsheet.
  - 2. The horizontal part of a spreadsheet.
- 3. The name of the computer program that displays data in rows and columns, and the table which displays data in rows and columns.
  - 4. A collection of cells in one layer of an Excel file.
  - 5. In databases, information is added to, which are grouped together into.
- 6. You can a database for specific information, or the information by a number of different criteria.
- 2 Choose words from each box to make expressions used to write letters in English and write them in.

b Lam Ms me ... Dear Smith, writing We would be am to ... 1 you could ... contact Please grateful if enclosing ...

1.		
2.		
3.		
4.		
5.		
3. Comp	lete this letter using exp	pressions from Exercise 2.
(1)	,	
(2)	raise a query about the	he most recent invoice your company sent us, dated
7 January 200	08. The <b>order</b> was corre	ect – an optical mouse and two Norton anti-virus
		re miscalculated the VAT. By my calculations, the
amount of V	AT should be £456.93.	(3) a copy of the invoice so that you can
check for you		
		once the <b>mistake</b> has been corrected. (5) if
		d like to discuss the matter further. I can be reached
by phone, far	x, email or at the addres	s at the top of this letter.
Yours si	• .	
Abbi Trı		
	the plural form of the	nouns that appear in bold in the text in
Exercise		
	1. query	9. mistake
	2. invoice	10. matter
	3. company	11. phone
	4. order	12. fax
	5. mouse	13. email
	6. virus	14. address
	7. amount	15. letter
	8. copy	
	Unit 16	. The Internet and email
Complet		ween an Internet Service Provider (ISP) and a
		ox into spaces 1–16. Then choose the correct words
to complete s	paces a–j.	
email V	Web spam IP modem w	ireless newsreader username browser internet
attachments	messaging file transfer p	protocol newsgroups broadband mail program
ISP Hel	pdesk Operator (HO):	Customer support, good morning.
Custom	er (C): Yeah, hi. (a)	am I speaking to?
	name's Martin. (b)	
<b>C:</b> I'm h	naving some problems wi	ith my (1) connection. I can't get online.
HO: OK	. I'm sure I can help. Let	t me just quickly check your (2) address
	what? What (c)	

HO: It's just a unique series of numbers that identifies your computer when it's
online. OK, just wait a sec Mmm Is your (3) plugged in and working OK?
C: Is that the same as the (4) router? The thing that plugs into the phone line?
HO: Yes. (d) the lights flashing?
C: Yes, they're flashing really fast.
HO: OK. Just turn the router off and on at the back. (e) it working now?
C: Yes, it is. (f) did that happen?
HO: It's nothing serious – sometimes you just need to reset the router. Is there
anything else I can help you with?
C: Actually, yes. I'm paying all this money for one of those fast, what do you call
them, (5) connections, but all I'm using the computer for is checking (6)
and looking up information on the (7) (g) else can I do with all this
technology?
HO: Well, have you tried instant (8)? You know, having real-time chats
with friends over the Internet?
C: (h) do you think I am? That sounds like the kind of thing my 15-year-old
son would be into, not me!
<b>HO:</b> OK, well (i) is your connection? If it's very fast, then you can take advantage of $(9)$ that means downloading files from the Internet onto your hard
advantage of (9) – that means downloading files from the Internet onto your hard
drive. It's a feature that is built into your web (10), so it's very easy to use. You
can download music, films, anything you want, really.
C: That sounds expensive. (j) does it cost to download a song?
<b>HO:</b> It depends on the site. Another thing you might want to try is (11)
public discussion areas on nearly any topic. It's part of a system called Usenet. You'll
need a (12) that's a program that lets you view and post messages - and a
(13) and password. It's all very easy.
C: OK, that all sounds interesting. Thanks for all
<b>HO:</b> Actually, you might be interested in a new product we've launched this week.
Can I ask which (14) you use?
C: Outlook Express.
<b>HO:</b> OK, we have some new anti-(15) software that helps detect junk email
by looking for suspicious words in the subject line of the email. It also looks for suspicious
(16) – that's how viruses are normally sent between computers. It only costs £5.99
a month and
Unit 17. The Web
1. What kind of site is each web extract from?
1.
Wednesday 20 February
Happy birthday, Sam!
I'm <u>really excited</u> because it's Sam's birthday today, so we're all meeting up later to
go for something to eat and then see a film. I'll let you know what we saw in tomorrow's

post.

#### 2.

#### Coen Brothers

Joel and Ethan Coen, known as The Coen Brothers, are <u>internationally known</u> American filmmakers. For over 20 years, they have written and directed <u>award-winning</u> films such as ...

3.

### Shopping cart Your account Log in Browse Help

Welcome to storefront.co.uk, Britain's largest and most reliable online store for ...

## **Buy Sell Search Categories Help**

Before you can  $\underline{\text{bid on}}$  any item listed on the site, you need to  $\underline{\text{create an account}}$ .

5.

#### Welcome to Connect-O!

Use Connect-O to <u>send messages</u> to friends and family around the world, to <u>share photos and videos</u>, and much, much more!

### 2. What type of collocation are the underlined phrases below?

1. really excited

6. online store

2. see a film

7. bid on

3. internationally known

8. create an account

4. award-winning films

9. send messages

5. Welcome to

10. share photos and videos

#### 3. Make collocations connected with web browsers using the words from the box.

the home page the current page favourites the current transfer one page (x2)

1. go back

3. stop

5. go forward

2. go to

4. refresh

6. show

## 4. Complete these definitions by choosing the correct word from the drop-down menu.

- 1. \_\_\_\_\_: a public place where you can pay to use the Internet and also buy food and drink
  - 2. \_\_\_\_\_: buying and selling goods on the Internet
  - 3. \_\_\_\_\_: a way of describing the Internet
  - 4. \_\_\_\_: learning using technology, for example, the Internet
  - 5. \_\_\_\_\_: a book in electronic format

#### **Unit 18. Chat and conferencing**

### 1. Complete the crossword by writing in the words.

ACROSS	
4 Internet	: also known as VoIP.

6 Windows Live Messenger and ICQ are both examples of messaging
programs.
7 An angry or negative comment posted online.
8 Many methods of online communication allow you to communicate in time
- that is, instantly.
10 To talk to another person in a different part of the world and see each other on television
screens.
DOWN
1 The list of your friends or contacts, used in programs such as Windows Live Messenger
and ICQ: a list.
2 VoIP stands for Voice Over Internet
3 An image that represents a user in a virtual reality environment such as Second Life.
5 An unofficial set of rules for how you should behave when communicating online.
9 A chat is a public online space where you can meet people and discuss topics
of mutual interest.
words.
2
5 3
4
6
7
8
9
10
2. For each abbreviation, choose the correct meaning.
1 IOW 5. TIA
2. IMO 6. BBS
3. ASAP 7. BTW
4. F2F 8. LOL
0.202
3. Complete the online chat by choosing the correct abbreviations.
Will: How things?
Nick: Good, thanks.
Will: Not bad. Need 2 talk  2 discuss the new website.
Nick: OK or on the phone?

Will: Meet coffee? I need 2 get out of the house!
Will: Meet coffee? I need 2 get out of the house! Nick: ! u at the cafe at 3.30?
Will: Great
4. Choose the correct word to complete the list of things that you can
do at a typical cybercafé.
1 the Internet
2 the Web
3telephony
4 gaming
5coffee
6. chat people
TI 1/40 T
Unit 19. Internet security
1. Complete this product description of an internet security program. Write in the
missing words using the mixed-up letters in brackets.
EFG
EFG (1) [inta-riuvs] software is the only program you need for complete
protection from online threats.
EFG scans all incoming and outgoing email attachments, helping to protect your PC
against (2) [rivessu], (3) [romsw], (4) [Torsjan] and other
types of (5) [lawmare] A (6) [lawlrife] shields your system from attack
by (7) [reschak], while the program can also detect if a website's (8) [igidlat
ercteacfiti] is out-of-date or suspicious, allowing you to carry out financial
transactions online with total security.
In addition to all of the above, the EFG Professional Edition also comes with email
(9) [crynetipon] and the EFG (10) [rawsyep] scanner, helping you
to keep your system free of unwanted advertising and (11) [socoiek]
EFG Basic is available to download as (12) [warfeeer] by clicking here.
Alternatively, you can purchase the EFG Professional Edition for only £29.95. Click here
to visit our (13) [rescue witebes] or pay using PayPal by clicking here.
(-0) [
2. Complete these extracts from wikis about cybercrime using the past simple form
of the verbs in brackets. Then decide what kind of cybercrime each wiki is describing.
1. In July 2001, the online file-sharing network <i>Napster</i> (shut) its website
following legal action from several major record labels.
2. In late 2006, a computer worm (take) control of hundreds of pages on
MySpace and (change) links to direct surfers to websites designed to steal their
login details.
3. The first well-known worm (be) the <i>Internet Worm</i> of 1988, which
(infect) SunOS and VAX BSD systems.
4. A 2007 study (find) that 28% of female internet users had experienced
online harassment. In 84% of cases, the incidents (happen) in a chat room.

5. In 2008, author J K Rowling (say) that a company trying to publish an online Harry Potter encyclopedia had 'stolen her words'.  Unit 20. Graphics and design
Complete the following wikis about graphics by typing in words from the box in the spaces (1–13). Then choose the correct forms of the words (a–m) by choosing from the drop-down menus.
resolution CAD raster 3-D wireframes texturing toolbox vector compositing rendering computer animation solid modelling filters
Computer graphics  There are two types of computer graphic: (1) graphics, where each pixel is separately defined, and (2) graphics, where mathematical formulae are used to draw lines and shapes. (a) this second type of graphic results in sharper graphics with no loss of (3) when the object is scaled up.  During the late 1970s, personal computers became more powerful, capable of (b) more complex shapes and designs. In the 1980s, artists and graphic designers started (c) personal computers as a serious and (d) new design tool. (4) (Computer Aided Design) allowed designers to make (5) to show the edges of an object, and then add colour and filters to (e) it look more realistic a process known as (6) They could even add light and shadow, known as (7) Three-dimensional, or (8) , computer graphics became possible in the late 1980s with the invention of powerful SGI computers, which were later used to create some of the first (9) films at the Pixar movie studio. 3-D graphics became more popular in the 1990s, in gaming, multimedia and animation. Computer graphics continue to (f) even more detailed, due to more advanced computers and better (10) software applications — the tool which allows designers to make graphics appear in 3-D.
Web graphics In the 1990s, internet speeds increased, and web browsers that could view images were released. Websites began to use the GIF format to display small graphics, such as banners and adverts. Nowadays, web browsers can (g) a much wider variety of

image formats. Plugins can expand the web browser functions to display animated,

interactive and 3-D graphics, contained within file formats such as SWF and X3D. Most modern web graphics are made with either Adobe Photoshop or Corel Paint

Shop Pro. Windows users have access to MS Paint, but many people think the program has insufficient features, with only a very basic (11) of (h) and (i)

Numerous online communities and websites have been created for web graphics artists, but easy-to-use software – especially photo-editing software – means that it's not

only professionals who are (j) graphics online. More and more people now
create internet forum signatures and other types of digital art, for example (k)
(12) to photos to change their appearance, or (13), which involve
(l) several different images to (m) one image.
Unit 21. Desktop publishing 1. Unscramble the letters to make words connected to desktop publishing.
1 peag luatyo
r peaginaryo
p 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 nosft
f
3 eidtrc ot latpe
d p
4 xett lowf
t
5 torceupm-ot-peatl
5 torceupin-oc-pean
c
2. Choose the correct order of words.
1. He's recently started working for a design company.
2. I need to replace this laptop – it's embarrassing when I meet clients.
3. Let me show you this design program I've started using.
4. We use the technology to make sure that our clients get what the
need.
5. Why are you still using that Walkman? You should get an iPod.
3. Complete the letter to a desktop publishing company using the words from the
box.
look forward faithfully would grateful currently could writing
Dear Sir/Madam,
I am (1) to enquire about the possibility of doing work experience with
your company this summer. I am (2) in my first year of a desktop publishing
course at York Technical College and am keen to gain some hands-on experience of the
workplace.

Unit 22. Multimedia  1. Make collocations connected with multimedia.  1. animation  2. CD/DVD  3. interactive  4. sound  5. stereo  6. information  7. streaming  8. digital  9. video  10. virtual  2. Unscramble the letters to complete the definitions from an online dictionary.  Write in your words.  1. dheasenpho: device which covers each ear and allows you to listen to audio without other people hearing  2. pertyhtex: text with links to other text or other parts of a document or web page  3. tacvitiyniter: allowing two-way communication between a program and the user  4. pormicnohe: equipment that allows you to record your voice  5. batscew: a concert or other event broadcast over the Internet  3. Complete the following blog entry, which one of your classmates wrote for Exercise 5c on page 113 of the Infotech Student's Book, by writing in terms from 1 and 2 above into spaces 1–10. (You will not need to use all of the terms.) Then use the correct
1. animation 2. CD/DVD 3. interactive 4. sound 5. stereo 6. information 7. streaming 8. digital 9. video 10. virtual  2. Unscramble the letters to complete the definitions from an online dictionary.  Write in your words.  1. dheasenpho: device which covers each ear and allows you to listen to audio without other people hearing 2. pertyhtex: text with links to other text or other parts of a document or web page 3. tacvitiyniter: allowing two-way communication between a program and the user 4. pormicnohe: equipment that allows you to record your voice 5. batscew: a concert or other event broadcast over the Internet  3. Complete the following blog entry, which one of your classmates wrote for Exercise 5c on page 113 of the Infotech Student's Book, by writing in terms from 1 and
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Exercise 5c on page 113 of the Infotech Student's Book, by writing in terms from 1 and
verb forms (a–e). 22nd February
So, what exactly is multimedia? If you (a) on
http://dictionary.cambridge.org, you'll find the following definition: using a combination
of moving and still pictures, sound, music and words, especially in computers or
entertainment. This definition refers specifically to (1) such as educational CD-ROMs or digital encyclopaedias. It could also be referring to the touch-screen (2) that you sometimes see in banks and estate agents. This type of multimedia
commonly uses (3) – links that take you to other pages of the document or program. However, I think multimedia can mean anything from using a (4)

to burn MP3s, to listening to an online radio show using (5) (that is, in real
time).
As long as you (b) a fast CPU, a good monitor and a (6)
(hardware that allows you to play digital audio through your computer), you'll be able to
use basic multimedia applications. If you (c) to go a step further, you could
invest in a (7) to record yourself, or a digital video camera to make videos in
invest in a (7) to record yourself, or a digital video camera to make videos in (8) If you wanted to make a whole movie, then you (d) also
need (9) software such as Apple's iMovie.
The future of multimedia looks very exciting. If current trends continue, then (10)
(e) more and more popular – we could eventually be living
most of our lives in these 3-D worlds, interacting with each other just as we do in real life.
Just look at the success of Second Life
Posted by Jordi Pons (Barcelona)
**
Unit 23. Web design
Complete the conversation between a web designer and his client.
Web Designer (WD): So, could I begin by asking what kind of (1)
you're looking for?
Client (C): I'm a vocalist in a band, and I need a bit of an online presence – mainly
for promo purposes, you know? Nothing too complex, but I'd like it to have a nice (2)
and some eye-catching (3)
<b>WD:</b> Got it. That sounds fairly straightforward. Are you thinking of including (4)
and (5) as well? Like having your music and videos directly on the site?
C: Yes, that'd be awesome if people (6) stream content straight from
the website.
WD: Sure, that's doable. Visitors might need to have the right (7)
installed, but it's usually no trouble. Would you also want to include an (8)
? It's handy for notifying visitors about any fresh updates or content.
C: Definitely. But I'm curious – is this going to cost a lot?
WD: You (9) stress about that. It sounds like something we can build
using a program like (10), which helps us move quicker and save money
compared to coding everything by hand. We also work with (11) now – they
make applying design changes much more efficient across the whole site. When would
you like the site to (12)?
C: Ideally in about four weeks. I've already drafted all of the (13) (14)
I just send that over via email?
WD: Yes, that would be perfect. I (15) likely get started early next
week.
C: Actually, I should also check in with my bandmates and ask for any images they
want featured. Which file types work best for you?
WD: Jpeg or gif are ideal for pictures, and avi or mpeg for any videos. As for audio,
it's best if everything (16) in mp3 or wav. Try to avoid Real Audio – not all
media players (17) it anymore.

and sound files, link th	ne pages	, and v	erials, I'll format the (18), add visuals we'll be ready to publish. Just make sure you (19)
C: That sounds gr			elp maintain it for a small additional fee. much.
			24. Program design and omputer languages
1. Decide if the fo	llowing	words	collocate with code or language.
1. low-level 2. machine	code	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	language
2. machine	code		language
3. object		code	language
3. object 4. high-level	code		language
5. programming	code		language
6. markup		code	language
7. source		code	language
6. markup 7. source 8. assembly	code		language
Exercise 1. Then use the second secon	the correction of the correcti	n for a d into a instruction of low-linstructionstructionstructions described and ginal variations the example.	a formal language used
3. Complete these	steps in	the w	riting of a program using the words from the box.
			tation flowchart
	problem	comp	ile instructions
1. Understand the 2. Make a 3. Write	$_{\rm }$ , which	h show	s the steps of the program.

4 the program – that is, turn it into machine code.
5. Test for errors and the program.
6. Prepare, for example the instruction manual.
Unit 25. Java
1. Complete the crossword.
ACROSS
2. If a piece of software can run on any OS, it is independent.
5. A competitor to Java, developed by Adobe.
6. Java and C++ are both examples oforiented languages.
8. The name of a Java application which runs automatically on a web page. <b>DOWN</b>
1. Java is used to create objects (bar charts, diagrams, etc.) which are
more interactive than the standard versions.
3. Java is multi, which means that a Java program can have multiple parts operating at the same time; this saves on CPU power.
parts operating at the same time; this saves on CPU power.
4. Java was created for use on mobile devices.
7. When Java source code is compiled, it is converted into bytecode, with a file
extension
2. Two of your classmates, Paula and Antonio, are discussing their
experience with computers for Exercise 4 on page 128 of the Infotech Student's
Book. Complete this part of their conversation.
Paula: So, Antonio, let's look at the first question. When did you first (1)
a computer game?
Antonio: Wow, it's so long ago! I think I probably (2) my first game
when I (3) 8 or 9. I can't remember what it was (4), though.
OK, a question for you now, Paula. How old were you when you (5) your
first computer lesson at school?
Paula: Mmm Well, I (6) learning about computers properly three years
ago. But I've (7) computers nearly all my life – for as long as I can remember! I $$240$

didn't use the Internet until I was about	out 12, though. My parent	ts wouldn't allow it. They			
were (8) about safety, that	kind of thing.				
Antonio: Mine, too. I didn't (9)	my first chat or	nline until I was about 13,			
Antonio: Mine, too. I didn't (9) I think. And even then my parents (1	0) everything	I did! I (11)			
them to let me have my privacy after	a few months, though.				
3. Choose the correct	ct pronunciation of the -ec	d endings of the following			
verbs.					
1. played \t\\d\	\ <b>Id</b> \				
2. called \t\\d\					
3. started \t\\d\\ 4. used \t\\d\\Id\	\Id\				
4. used $t \leq t \leq t$					
5. worried \t\\d\	\Id\				
6. watched $\t \t \d \$					
7. persuaded $t \leq t $					
	Init 26. Jobs in ICT				
1 Choose the correct word to m					
1. software	operator	engineer			
2. computer security	operator	specialist			
3. blog	administrator	engineer			
4. help desk	specialist	technician			
5. DTP	operator operator	engineer			
6. hardware		engineer			
7. network	administrator	operator			
2.David is having an interview	for a job as a webmaster.	Put in the correct words.			
Interviewer: So why (1)	for this position?				
David: Well, (2) the	last three years I (3)	in an interesting, but			
very small, company, and I now feel i					
the opportunity to continue my career					
<b>Interviewer:</b> Right. And can you describe what your responsibilities are at – what's your current company called again? Ah, yes, at <i>Intertech</i> ?					
your current company called again? A	An, yes, at Intertech?	(5)			
<b>David:</b> Of course. Well, I (4) as I (6), and (7)	working there th	ree years (5),			
as I (b), and (/)	_ July 2007 I (8)	responsible for one			
aspect of the company's online prese	nce – specifically, the onl	ine catalogue. However, I			
was then promoted and put in charge	of the design and mainten	ance of the entire website.			
In January 2008, I (9)	to implement a new e-	commerce system, which			
allows people to buy directly from	the catalogue using 'on	e-click ordering. It (10)			
very successful so far.	ggive What chant for-	languages? Vous English			
<b>Interviewer:</b> That's very impre is obviously very good, but do you sp		languages? Your English			
is obviously very good, but do you sp	eak any other languages?				

David: Well, French – my mother tongue – obviously. I also (11) some
time in Spain five years (12) as part of my degree, so I'd say I have
intermediate Spanish. I (13) it much recently, though.
Interviewer: Well, it is hard to find the time, isn't it? OK, just one more thing. (14)
ever had experience of people management?
<b>David:</b> Yes, absolutely. At <i>Intertech</i> I'm in charge of one member of staff – a web
editor. I've (15) had any problems with the management side of my role; in
fact, I really enjoy it.
Interview: OK, well that's good news. Well, we need to have a think about it, but
we'll let you know ASAP.
David: Thank you for seeing me today. I look forward to hearing from you soon.
Unit 27. Communication systems
1. Which ICT device or system is being used in the examples below?
1. A: This sounds great, doesn't it? The signal's really clear.
<b>B:</b> Can you still get all of your favourite stations?
2. A: This is so frustrating! Why can't he just email me instead? Has he not heard of
modern technology?
<b>B:</b> I know, I know. But he doesn't have the image in digital format, and he needs you
to see what it looks like. This is the quickest way.
3. In 200 metres, turn right and then left.
<b>4. A:</b> Hello. Are you happy with your current gas and electricity supplier? If not, we
can save you up to £100 a year –
B: No, thanks! I don't talk to telemarketers.
<b>5.</b> 160 channels in widescreen high-definition, and there's <i>still</i> nothing to watch!
<b>6.</b> Not another work email. It's Saturday morning! I need to turn this thing off!
7. A: Do you know what the football results were? The Internet's not working.
<b>B:</b> Here, let's have a look. Pass me the remote control.
<b>b:</b> Here, let 8 have a look. Pass me the femote control.
2. Complete the following blog entry, which one of your classmates wrote for
Exercise 4d on page 139 of the Infotech Student's Book, by writing in the passive form
of the verbs in brackets.
23rd February
We had an interesting discussion about mobile phones in class today. Opinion (1)
(divide) about whether they're a good thing or not. Despite the fact that
mobile phones (2) (invent) to make our lives more convenient (supposedly!),
it's clear that we've become totally dependent on them. Most of the class even use them
to watch videos or listen to music.
They're expensive, too. Most people said they spent over £20 a month on their phone,
despite the fact that free calls and text messages (3) (include) in most tariffs
these days. Part of the problem is that MMS messages aren't free, and many calls (4)
(make) during the day, when the free minutes don't count.
There was also some worry about the potential health problems of mobile phones.
Despite all the warnings, mobile phones (5) (use) by children as young as

phones (6)	_ (not know) until we're a that they should (7)	is that the true damage done by mobile II much older. By then, it'll be too late! (ban), but clearly more research
	e letters to make features o	of mobile phones. Write the words in.
1. MIS crad:	5. peykad:	
2. DCL neecsr:	6. notegrin 7. wileress	:
3. tubil-ni meraca:	7. wileress	trsuppo:
4. cagalhnebe cep	fatale:	
	Unit 28. Ne	tworks
1 What do the fol	Unit 26. Ne llowing abbreviations stan	
1. LAN	local area network	large area network
2. PAN	private area network	nersonal area network
3. MAN	managed area network	metropolitan area network
4. WAN	$\mathcal{E}$	wireless area network
1. The most comm 2. There are sev communicate with each 3. A client-server most important being computer to act as a ser	the networks he's describe non examples of networks a teral languages that the nother. For example, the In network differs from a per that on a peer-to-peer net	are LANs, PANs, MANs and WANs. computers on a network can use to nternet uses TCP/IP. er-to-peer network in several ways, the twork, there is no need for a separate
Student's Book by writ	ting in words from the box	e network on page 144 of the Infotech : log on modem file sharing type
in satellite wired	telephone lines set up look	for fibre optic cable look at
network, or WAN, corprobably two offices of Chris: The (3) of a number there, which	necting two networks via the same company. network on the r of PCs connected by (5)_h acts as a file server, allow order to access files on the	right – the one in Barcelona – is (4)  You'll be able to see the (6)  ving (7) between the other server, you would probably need to (8)

Clare: That's right, Chris. In contrast, the Los Angeles network (9) a wireless router, which links all of the hardware devices without the need for cables. Workers using PDAs or laptops, like those shown in the diagram, would be able to (10) to the network if they had wireless capabilities. Interestingly, while in Barcelona the (11) is linked to the dish aerial with a(12), in Los Angeles they're using regular (13) This may mean slower speeds for the Los Angeles office.  Chris: It looks like this network was (14) to allow the two offices to (15) and share information and resources on each other's systems, and it's a sensible network solution for a company with offices in several different locations.
Unit 29. Video games
1. Make game platforms and game genres.  1 phone online games
3. video device 5. 3G
<ul> <li>2. Look at the customers' questions asked in a computer and electronics shop.</li> <li>Which type of game is each customer asking about?</li> <li>1 A: Will this work with Windows XP?</li> <li>B: It will, but it'll run faster if you have Windows Vista.</li> <li>2 The graphics are incredible, considering how small the screen is. How much is it for the Nintendo version?</li> <li>3 A: Is there anything else I need in order to play this game?</li> <li>B: No, you just use the games controller that came with your machine.</li> <li>4 A: And do I need an internet connection to play this?</li> <li>B: Ideally, yes. The whole point of games like this is to play with people from all over the world.</li> <li>5 A: Is this the only game that comes with it?</li> <li>B: Yes, but you can download other Java-based games for free. Just ask your network about it.</li> </ul>
3. Complete this extract from the interview with Matt Robinson (see Infotech Student's Book page 148) using correct adjective or adverb.  Interviewer: So which game genres do you think will be the most popular in the future?  Matt: I think console games will play a (1) part in shaping the future of games, while (2) helping to attract a (3) audience. Games like Wii Sports have already proven (4) popular, just by emulating real-world games such as tennis and bowling, and making them as (5) to play as their

**Anthony:** Hang on a minute, I (j) \_\_\_\_\_ look. Umm ... it's talking about a type of technology that uses radio waves and these things called 'tags' to identify people.

**Beth:** People? So they could embed one of these tags in me?

**Anthony:** Well, in theory, yes. But they're mainly used on animals – so you can track your pet if they vanish – and on products in shops – so that they can stop people stealing.

Beth: Mmm. It still sounds suspicious to me.

**Anthony:** Well, it does say here that some organizations are worried about privacy issues.

**Beth:** I do worry that in the future, governments and big corporations (k) all of these new types of technology to keep us under control.

Anthony: You worry too much. Here, you finish the article. I (l) us a nice cup of tea.



#### IDIOMS FOR THE FUTURE EXPERTS

- Break the code зрозуміти або знайти рішення складного алгоритму чи проблеми.
- 2 **In the loop** бути в курсі поточних справ або обговорень у команді.
- 3 Hit the ground running почати працювати ефективно з самого початку.

- 4 Burn the midnight oil працювати допізна, часто для завершення проекту.
- 5 Throw a wrench in the works створити проблеми або перешкоди в процесі.
- 6 Back to the drawing board повернутися до початкової стадії проєкту після невлачі.
- **Push the envelope** експериментувати з новими технологіями або ідеями.
- **A bug in the system** помилка в програмному забезпеченні.
- **On the same page** мати спільне розуміння або бачення ситуації в команді.
- 10 Cutting-edge technology новітня технологія, яка  $\epsilon$  передовою у своїй галузі.
- 11 Get the ball rolling почати процес або проект.
- **In the weeds** бути зануреним у деталі, що ускладнює бачення загальної картини.
- **Nip it in the bud** зупинити проблему на ранній стадії.
- 14 Think outside the box мислити креативно, не за стандартними схемами.
- **Go the extra mile** докласти додаткових зусиль для досягнення кращого результату.
- 16 The ball is in your court тепер твоя черга приймати рішення або діяти.
- **Hit a snag** зіткнутися з проблемою або затримкою під час роботи.
- **Light at the end of the tunnel** знак того, що важка робота наближається до завершення.
- **Keep your eye on the ball** залишатися зосередженим на важливих завданнях.
- **All hands on deck** ситуація, коли всі повинні брати участь у вирішенні проблеми.
- **Chasing ghosts** витрачати час на вирішення неіснуючих або незначних проблем.
- 22 Face the music прийняти наслідки своїх дій.
- 23 Get your ducks in a row організувати все перед початком роботи.
- **Keep it simple, stupid (KISS)** принцип, що наголошує на простоті рішень.
- **Low-hanging fruit** легкі завдання, які можна швидко виконати.

- 26 Run it up the flagpole представити ідею для оцінки та відгуків.
- 27 Put all your eggs in one basket ризикувати, зосереджуючи всі ресурси на одному проекті.
- 28 Read between the lines зрозуміти приховане значення.
- 29 The proof is in the pudding результат покаже якість роботи.
- **Reinvent the wheel** робити те, що вже було зроблено раніше, витрачаючи час даремно.
- **On the back burner** поставити завдання на паузу або відкласти його.
- **Break new ground** відкривати нові шляхи або досягати нових технологічних вершин.
- **Drop the ball** допустити помилку або забути про важливе завдання.
- **In over your head** бути занадто зануреним у складну ситуацію.
- 35 Out of the box нестандартне рішення або мислення.
- **Under the hood** те, що відбувається всередині системи, непомітне для користувача.
- 37 A silver bullet просте рішення складної проблеми (часто у вигляді ілюзії).
- 38 Hard to crack складна задача, яку важко вирішити.
- **Rocket science** щось дуже складне або технічно важке.
- **Plug and play** система, яку можна встановити і одразу використовувати без налаштувань.
- **Take it offline** обговорити питання поза основною зустріччю або публічною дискусією.
- **Dead in the water** проект або задача, яка не просувається або втратила перспективу.
- **Hit the nail on the head** точно вирішити проблему або зробити правильне зауваження.
- 44 Garbage in, garbage out (GIGO) якість вихідних даних залежить від якості вхілних.
- **Bandwidth** здатність виконувати кілька завдань одночасно (або пропускна здатність системи).

- 46 **Eat your own dog food** використовувати власну продукцію для демонстрації її якості.
- 47 **Smoke and mirrors** технічні трюки або ефекти, які приховують недоліки продукту.
- 48 **Patch things up** тимчасово вирішити проблему або баг, часто не остаточно.
- 49 **Blue screen of death (BSOD)** критична помилка, яка зупиняє роботу операційної системи.
- 50 **Mission-critical** критично важливе завдання або функція, без якої система не може працювати.

#### GLOSSARY OF COMPUTING WORDS AND ABBREVIATIONS



Account – обліковий запис

Avatar – Аватар (графічне зображення, що представляє реальну людину у кіберпросторі

API (Application Programming Interface) – програмний інтерфейс, який дозволяє різним програмам взаємодіяти одна з одною, визначаючи способи обміну даними.

Algorithm – алгоритм, чіткий набір інструкцій для виконання певної задачі або обчислення.

Artificial Intelligence (AI) — штучний інтелект, галузь комп'ютерних наук, що досліджує можливість створення машин, здатних виконувати задачі, що вимагають інтелекту.

Agile – гнучка методологія управління проектами, що акцентує увагу на гнучкості, співпраці та швидкому реагуванні на зміни.

Architecture – архітектура, загальний план або структура системи, що описує її компоненти та взаємозв'язки.

Authentication — аутентифікація, процес перевірки особи або системи, що намагається отримати доступ до ресурсу.

Authorization – авторизація, процес надання прав доступу до ресурсів після успішної аутентифікації.

Automation – автоматизація, процес використання технологій для виконання задач без людського втручання.

Аггау – масив, структура даних, що зберігає колекцію елементів одного типу.

Artificial Neural Network (ANN) – штучна нейронна мережа, модель обчислень, натхненна структурою та функціями біологічних нейронних мереж.

Access Control – контроль доступу, методи обмеження доступу до систем, даних або ресурсів.

Agile Development – гнучка розробка, методологія, що передбачає ітеративний процес розробки програмного забезпечення.

Anomaly Detection – виявлення аномалій, процес виявлення незвичних або підозрілих патернів у даних.

Арр (Application) – програма, програмне забезпечення, яке виконує певну функцію на комп'ютері або мобільному пристрої.

ASP.NET – фреймворк для розробки веб-додатків, створений компанією Microsoft, який дозволяє створювати динамічні веб-сайти та служби.

## В

Backend – серверна частина веб-додатка, що відповідає за обробку запитів, управління базами даних і логіку програми.

Big Data – великі дані, обсяги інформації, які занадто великі або складні для обробки традиційними методами.

Blockchain – технологія, що забезпечує безпечне зберігання та передачу даних у дистрибутивному реєстрі.

Browser – веб-браузер, програмне забезпечення для перегляду веб-сторінок в Інтернеті.

Bug – помилка або дефект у програмному забезпеченні, який призводить до неналежної роботи програми.

Bootstrap — фреймворк для створення адаптивних веб-дизайнів, що забезпечує набори готових компонентів та стилів.

BI (Business Intelligence) – бізнес-аналітика, процес збору, аналізу та представлення бізнес-даних для прийняття рішень.

Buffer – буфер, область пам'яті, що використовується для тимчасового зберігання даних під час їх обробки.

Bash – Bourne Again SHell, командна оболонка для Unix-подібних операційних систем, що дозволяє виконувати команди в текстовому режимі.

Browser Compatibility – сумісність браузера, здатність веб-додатка або веб-сайту працювати в різних браузерах без помилок.

Byte – байт, одиниця вимірювання інформації, що складається з 8 бітів.

Business Logic – бізнес-логіка, правила та алгоритми, які визначають, як бізнесоперації виконуються в програмному забезпеченні.

Bootstrap — методологія, що використовується для створення системи, яка може самостійно завантажуватися або ініціювати свою роботу.

Burnout – вигорання, стан фізичної і емоційної втоми, яке може виникнути у розробників через надмірне навантаження.

Backup – резервна копія, копія даних, створена для захисту інформації в разі втрати або пошкодження основних даних.



Cloud Computing – хмарні обчислення, технологія, що дозволяє зберігати та обробляти дані на віддалених серверах, доступних через Інтернет.

Containerization – контейнеризація, технологія, яка дозволяє упаковувати програмне забезпечення та його залежності в контейнери для забезпечення портативності та ізоляції.

CI/CD (Continuous Integration / Continuous Deployment) – безперервна інтеграція та безперервне розгортання, практики автоматизації, які дозволяють часті оновлення програмного забезпечення.

Cache – кеш, тимчасове сховище даних, що використовується для зменшення часу доступу до інформації та покращення продуктивності системи.

Cybersecurity – кібербезпека, захист комп'ютерних систем і мереж від крадіжки, пошкодження або несанкціонованого доступу.

Client-Server Architecture – архітектура "клієнт-сервер", модель обробки даних, в якій клієнт запитує ресурси від сервера.

Cryptography – криптографія, наука про шифрування та захист інформації.

Compiler – компілятор, програма, яка перетворює код, написаний на високорівневій мові програмування, у машинний код.

Database Management System (DBMS) – система управління базами даних, програмне забезпечення для створення та управління базами даних.

CSS (Cascading Style Sheets) – каскадні таблиці стилів, мова, що використовується для стилізації веб-сторінок.

Continuous Testing – безперервне тестування, практика тестування програмного забезпечення в процесі розробки.

Cross-platform — крос-платформний, описує програмне забезпечення, яке може працювати на різних операційних системах або пристроях.

Content Management System (CMS) – система управління контентом, платформа для створення та управління цифровим контентом, часто використовується для вебсайтів.

Command Line Interface (CLI) – інтерфейс командного рядка, текстовий інтерфейс для введення команд і управління системою.

Checksum – контрольна сума, значення, яке використовується для перевірки цілісності даних, щоб виявити помилки або зміни.

## D

DVD (- ROM) – Цифровий універсальний диск, тільки для читання

DVD (+RW) — Цифровий універсальний диск, що використовує або - або + для читання та запису даних

Database – база даних, організована структура для зберігання, управління та отримання інформації.

Data – дані, факти або інформація, які можуть бути оброблені комп'ютерами.

Debugging – налагодження, процес виявлення і виправлення помилок у програмному забезпеченні.

Deployment – розгортання, процес перенесення програми або системи з розробницького середовища в продуктивне.

DDoS (Distributed Denial of Service) – атака, яка намагається зробити ресурс недоступним шляхом перевантаження його запитами з багатьох джерел.

Domain – домен, частина адреси веб-сайту, що визначає його унікальність в Інтернеті.

Docker – платформа для створення, розгортання та управління контейнерами, яка дозволяє ізолювати програми від середовища виконання.

Data Mining – видобуток даних, процес аналізу великих обсягів інформації для виявлення корисних шаблонів та зв'язків.

DHTML (Dynamic HTML) – динамічна HTML, технологія, яка дозволяє створювати інтерактивні та анімовані веб-сторінки.

DSL (Domain-Specific Language) – мова, що спеціалізується на певній галузі, з метою полегшення розробки в цій області.

DevOps — методологія, яка об'єднує розробку програмного забезпечення (Dev) і операційні процеси (Ops) для покращення співпраці та швидкості розробки.

Distributed System – розподілена система, комп'ютерна система, в якій компоненти, що знаходяться на різних мережевих пристроях, працюють разом як єдине ціле.

Dependency – залежність, зв'язок між двома компонентами, при якому один компонент вимагає іншого для правильного функціонування.

Data Warehouse – сховище даних, централізоване репозиторій, що зберігає дані з різних джерел для аналізу та звітності.

DPI (Deep Packet Inspection) – глибока інспекція пакетів, технологія аналізу даних, що передаються в мережі для виявлення шкідливих дій або контролю трафіку.

# E

Encryption – шифрування, процес перетворення даних у формат, який неможливо прочитати без відповідного ключа.

Entity – сутність, об'єкт або елемент даних, що має свою унікальну ідентичність у системі, часто використовується в базах даних.

Endpoint – точка доступу в мережі або API, через яку клієнт може взаємодіяти з сервісом.

Error Handling – обробка помилок, механізм управління помилками, що виникають під час виконання програми.

Environment – середовище, в якому виконується програма або система, може бути локальним, тестовим або продуктивним.

Executable – виконуваний файл, програма, яку можна запустити на комп'ютері.

E-commerce – електронна комерція, процес купівлі та продажу товарів або послуг через Інтернет.

ETL (Extract, Transform, Load) – процес обробки даних, що включає вилучення, перетворення та завантаження даних у цільову систему.

Embedded Systems – вбудовані системи, комп'ютери, інтегровані в інші пристрої для виконання специфічних функцій.

Extensible Markup Language (XML) – мова розмітки, що використовується для зберігання та обміну структурованими даними.

Event-Driven Architecture – архітектурний стиль, заснований на обробці подій, які генеруються системами або користувачами.

Elasticity – еластичність, здатність системи автоматично масштабувати ресурси вгору або вниз відповідно до змінних навантажень.

Edge Computing – крайові обчислення, концепція, при якій обробка даних виконується ближче до джерела їх отримання для зменшення затримки.

Email – електронна пошта, система обміну повідомленнями через Інтернет.

ERP (Enterprise Resource Planning) – система управління ресурсами підприємства, що інтегрує всі аспекти бізнесу в єдину платформу

# F

Framework – набір інструментів і бібліотек, що забезпечує структуру для розробки програмного забезпечення.

Frontend – частина веб-додатка, яка відповідає за інтерфейс користувача та взаємодію з ним (клієнтська частина).

Backend – частина веб-додатка, що обробляє запити, зберігає дані та взаємодіє з сервером (серверна частина).

Firewall – система безпеки, що контролює вхідний і вихідний трафік в мережі на основі заданих правил.

Full-Stack Developer – розробник, який має знання та навички як в frontend-, так і в backend-розробці.

Function — функція, блок коду, що виконує певну задачу і може бути викликаний в різних частинах програми.

Failover – процес автоматичного переключення на резервну систему або компонент у разі відмови основної системи.

Firmware — програмне забезпечення, яке  $\epsilon$  частиною апаратного забезпечення та відповідає за управління його функціями.

Flask – мікрофреймворк для веб-розробки на мові Руthon, відомий своєю простотою та гнучкістю.

FTP (File Transfer Protocol) – протокол для передачі файлів між комп'ютерами в мережі.

Fuzzy Logic — нечітка логіка, підхід до обробки даних, що використовує значення, які не  $\epsilon$  чітко визначеними, для моделювання невизначеності.

Feature – функціонал або характеристика програмного забезпечення, що додає певну цінність для користувача.

Functionality — функціональність, можливості програмного забезпечення або системи, які визначають, що вона може робити.

Framework-as-a-Service (FaaS) — модель хмарних обчислень, яка дозволяє розробникам створювати та розгортати програми без управління інфраструктурою. First In, First Out (FIFO) — принцип управління чергами, при якому елементи обробляються в порядку їх надходження.



Gnome — Гном (може також означати середовище робочого столу в Linux)

Google — Google (залишається незмінним)

GPRS — GPRS (залишається незмінним, може означати "General Packet Radio Service")

GPS — GPS (залишається незмінним, може означати "Global Positioning System") – глобальна позиційна система

Graphic equalizer — Графічний еквалайзер

Grep — команда для пошуку в текстових файлах

GUI (Graphical User Interface) - Графічний інтерфейс користувача

Git – система контролю версій, яка дозволяє розробникам відстежувати зміни в коді та співпрацювати над проектами.

GitHub – платформа для хостинга Git-репозиторіїв, яка надає інструменти для співпраці, управління проєктами та контролю версій.

GUI (Graphical User Interface) – графічний інтерфейс користувача, який дозволяє взаємодіяти з комп'ютерними програмами за допомогою графічних елементів (кнопок, вікон тощо).

Golang (Go) – мова програмування, розроблена Google, відома своєю простотою, продуктивністю та підтримкою паралельного програмування.

GCP (Google Cloud Platform) – платформа хмарних обчислень від Google, що надає різноманітні сервіси для зберігання, обробки даних та розгортання додатків.

GDPR (General Data Protection Regulation) – загальний регламент захисту даних, законодавство ЄС, яке регулює обробку особистих даних.

Game Development – розробка ігор, процес створення відеоігор, що включає програмування, графіку, звук і дизайн.

Gantt Chart – діаграма Ганта, інструмент для планування проектів, що ілюструє графік виконання завдань.

Garbage Collection – автоматичний процес управління пам'яттю, що звільняє не використовувану пам'ять для запобігання витоків пам'яті.

GPU (Graphics Processing Unit) – графічний процесор, що використовується для обробки графіки і відео, а також для паралельних обчислень.

Grid Computing – мережеві обчислення, модель розподілених обчислень, яка використовує ресурси комп'ютерів у мережі для вирішення складних задач.

Gateway – шлюз, пристрій або програмне забезпечення, що забезпечує з'єднання між різними мережами або системами.

Globalization — глобалізація, процес адаптації програмного забезпечення для підтримки різних мов і культур.

Graph Database – графова база даних, що зберігає дані у вигляді графів з вузлами та ребрами, що дозволяє легко моделювати зв'язки між даними.

Gzip – алгоритм стиснення, який використовується для зменшення розміру файлів і швидшої передачі даних через мережу.

## H

HTML (Hypertext Markup Language) – мова розмітки, що використовується для створення веб-сторінок.

HTTP (Hypertext Transfer Protocol) – протокол для передачі гіпертексту на вебу, що використовується для завантаження веб-сторінок.

HTTPS (Hypertext Transfer Protocol Secure) — захищена версія HTTP, що забезпечує шифрування даних для безпечної передачі інформації.

Hashing – процес перетворення вхідних даних у фіксовану довжину виходу (хеш) для забезпечення цілісності даних.

Hardware – апаратне забезпечення, фізичні компоненти комп'ютера або пристрою.

Hypervisor – програмне забезпечення, яке дозволяє створювати та запускати віртуальні машини на фізичному сервері.

Hacking – процес несанкціонованого доступу до комп'ютерних систем або мереж з метою отримання інформації або внесення змін.

Heuristic – евристичний метод, використовуваний для вирішення проблем або ухвалення рішень, заснований на досвіді та практичних рекомендаціях.

HTTP/2 — оновлена версія HTTP, що покращує швидкість та ефективність завантаження веб-сторінок.

Human-Computer Interaction (HCI) – взаємодія людини з комп'ютером, область досліджень, що вивчає, як люди використовують комп'ютерні системи.

Hackathon – захід, на якому розробники, дизайнери та інші фахівці працюють разом протягом короткого часу для створення нових проектів або рішень.

Help Desk – служба підтримки, що надає допомогу користувачам у вирішенні технічних проблем.

Hybrid Cloud – гібридна хмара, комбінація публічних та приватних хмарних рішень, що дозволяє інтегрувати та переміщати дані між ними.

High Availability – висока доступність, концепція, що забезпечує безперервну роботу системи навіть у разі відмови окремих компонентів.

IPv6 (Internet Protocol version 6) – нова версія IP-протоколу, що використовує 128бітні адреси для забезпечення великої кількості унікальних адрес.

I

Internet – глобальна мережа, що з'єднує мільйони комп'ютерів і пристроїв для обміну даними.

IP Address (Internet Protocol Address) – унікальна адреса, що ідентифікує пристрій у мережі, використовується для маршрутизації даних.

IoT (Internet of Things) – Інтернет речей, концепція підключення фізичних пристроїв до Інтернету для збору та обміну даними.

IDE (Integrated Development Environment) – інтегроване середовище розробки, яке поєднує інструменти для програмування, налагодження та тестування.

HTTP (Hypertext Transfer Protocol) — протокол для передачі гіпертексту на вебу, що використовується для завантаження веб-сторінок.

HTTPS (Hypertext Transfer Protocol Secure) – захищена версія HTTP, що забезпечує шифрування даних для безпечної передачі інформації.

Inheritance – успадкування, концепція в об'єктно-орієнтованому програмуванні, яка дозволяє одному класу успадковувати властивості та методи іншого.

Interface – інтерфейс, набір методів, які клас повинен реалізувати, що забезпечує взаємодію між об'єктами.

IPv4 (Internet Protocol version 4) — версія IP-протоколу, яка використовує 32-бітні адреси.

IPv6 (Internet Protocol version 6) – нова версія IP-протоколу, яка використовує 128бітні адреси для забезпечення великої кількості унікальних адрес.

Intrusion Detection System (IDS) – система виявлення вторгнень, що моніторить мережеву активність для виявлення підозрілих дій.

Input/Output (I/O) – введення/виведення, операції, що залучають взаємодію між комп'ютером і зовнішніми пристроями або користувачами.

IPSec (Internet Protocol Security) – набір протоколів для забезпечення безпеки IPз'єднань шляхом шифрування та аутентифікації.

Instance – екземпляр, об'єкт, створений з класу в об'єктно-орієнтованому програмуванні.

Information Security – інформаційна безпека, практика захисту інформації від несанкціонованого доступу та зловмисних дій.

## J

Java – популярна мова програмування, що використовується для розробки вебдодатків, мобільних додатків і серверних рішень.

JavaScript — мова програмування, що використовується для створення інтерактивності на веб-сторінках.

JSON (JavaScript Object Notation) – легкий формат обміну даними, зручний для людей і машин, часто використовується для передачі даних між сервером і клієнтом.

JDBC (Java Database Connectivity) – API для підключення до баз даних з Javaдодатків.

JVM (Java Virtual Machine) – віртуальна машина, що виконує Java-програми, перетворюючи байт-код у машинний код.

 ${
m JUnit}$  — фреймворк для написання тестів на мові  ${
m Java}$ , що підтримує модульне тестування.

Jenkins – система безперервної інтеграції та доставки (CI/CD), яка автоматизує процеси розробки програмного забезпечення.

JIRA – система управління проектами та відстеження помилок, що використовується командами для планування, контролю та звітності.

Jupyter Notebook – інтерактивне середовище для програмування, що дозволяє писати та виконувати код на Python та інших мовах у формі нотаток.

Java EE (Enterprise Edition) — версія Java, що включає специфікації для корпоративних додатків, таких як сервлети і JavaServer Pages (JSP).

Jar (Java Archive) – файл, що містить зібрані Java-класи та ресурси, які можна використовувати як бібліотеки або для розгортання додатків.

JAX-RS (Java API for RESTful Web Services) – API для створення RESTful вебсервісів на Java.

JSP (JavaServer Pages) – технологія для створення динамічних веб-сторінок, що поєднує HTML та Java.

JIT (Just-In-Time Compilation) – техніка компіляції, яка дозволяє компілювати байткод Java в машинний код під час виконання програми для покращення продуктивності.

JupyterLab – розширене інтерактивне середовище для роботи з Jupyter Notebook, що надає більш потужні можливості для аналізу даних і наукових досліджень.

# K

Kernel – ядро, центральна частина операційної системи, що управляє апаратними ресурсами та забезпечує взаємодію між програмами та апаратним забезпеченням.

Kubernetes – система оркестрації контейнерів, що автоматизує розгортання, масштабування та управління контейнеризованими додатками.

Keylogger – шкідливе програмне забезпечення, яке записує натискання клавіш на клавіатурі без відома користувача.

KVM (Kernel-based Virtual Machine) – технологія віртуалізації для Linux, що дозволяє запускати віртуальні машини на базі ядра Linux.

Kotlin – мова програмування, що використовується для розробки додатків на платформі Android і сумісна з Java.

KPI (Key Performance Indicator) – ключовий показник ефективності, метрика, що використовується для оцінки успішності досягнення цілей.

Kafka – розподілена система обробки потоків даних, що забезпечує високошвидкісний обмін повідомленнями.

Key Management – управління ключами, процес створення, зберігання, використання та знищення криптографічних ключів.

Knowledge Base – база знань, централізоване сховище інформації, яке використовується для підтримки прийняття рішень і обслуговування клієнтів.

KNN (K-Nearest Neighbors) – алгоритм машинного навчання, який використовує відстані до найближчих сусідів для класифікації або регресії.

Knockout — JavaScript бібліотека для побудови веб-додатків, яка використовує патерн MVVM (Model-View-ViewModel).

Kubernetes Pod – базова одиниця розгортання в Kubernetes, що складається з одного або кількох контейнерів.

K8s – скорочене позначення для Kubernetes, де "8" означає кількість літер між "K" та "s".

KPI Dashboard – інформаційна панель, що відображає ключові показники ефективності візуально для швидкого аналізу.

Knapsack Problem – класична задача оптимізації в комп'ютерних науках, що стосується вибору елементів для максимізації значення при обмеженій вазі.



Linux – відкритий операційна система, заснована на ядрі Linux, популярна серед розробників та серверних адміністраторів.

Load Balancer – балансувальник навантаження, пристрій або програма, що розподіляє навантаження між кількома серверами або ресурсами.

Latency – затримка, час, необхідний для передачі даних з одного місця в інше в мережі.

Library – бібліотека, набір попередньо написаних функцій або класів, які можна використовувати в програмуванні.

Loop – цикл, структура програмування, що дозволяє повторювати виконання коду, поки певна умова залишається істинною.

Logging – ведення журналу, процес запису інформації про виконання програми або систему для подальшого аналізу.

Link – зв'язок або посилання між двома елементами, наприклад, між вебсторінками.

LDAP (Lightweight Directory Access Protocol) – протокол для доступу до інформації в каталогах, використовується для аутентифікації і авторизації користувачів.

Load Testing – тестування навантаження, процес оцінки продуктивності системи під різними умовами навантаження.

LAMP – технологічний стек, що складається з Linux, Apache, MySQL і PHP (або Python/Perl), використовується для створення веб-додатків.

Logic Gate – логічний елемент, який виконує логічну операцію над однією або кількома вхідними змінними (наприклад, AND, OR, NOT).

Lifecycle – життєвий цикл, фаза розвитку продукту або проекту, від початкового етапу до завершення.

Linux Kernel – ядро Linux, центральна частина операційної системи, що відповідає за управління ресурсами комп'ютера.

Localization – локалізація, процес адаптації програмного забезпечення для використання в певній культурі або мовній області.

Logic Programming – логічне програмування, парадигма програмування, що базується на формальному логічному висловлюванні.



Machine Learning – машинне навчання, підрозділ штучного інтелекту, що дозволяє комп'ютерам вчитися на даних і робити прогнози.

Malware – шкідливе програмне забезпечення, яке призначене для шкоди комп'ютерам або мережам.

Microservices – архітектурний стиль, який розбиває додатки на невеликі, незалежні сервіси, кожен з яких виконує певну функцію.

Middleware – проміжне програмне забезпечення, яке забезпечу $\epsilon$  зв'язок між різними програмами або сервісами.

Markdown – мова розмітки, яка дозволяє легко форматувати текст, часто використовується в документації та на платформах для ведення блогів.

MySQL – популярна система управління реляційними базами даних з відкритим кодом.

Memory Leak — витік пам'яті, коли програма не звільняє пам'ять, яку більше не використовує, що призводить до зменшення доступної пам'яті.

Module – модуль, частина програмного забезпечення, що виконує певну функцію і може бути використана в інших програмах.

Monitoring – моніторинг, процес відстеження стану системи або програми для виявлення аномалій або проблем.

Multithreading – багатопотоковість, здатність програми виконувати кілька потоків одночасно для підвищення продуктивності.

Network – мережа, група комп'ютерів або пристроїв, що з'єднані для обміну даними.

Node – вузол, точка з'єднання в мережі або частина програми, що виконує певну функцію.

NAT (Network Address Translation) – трансляція мережевих адрес, технологія, що дозволяє кільком пристроям в локальній мережі ділити одну публічну ІР-адресу.

NuGet – система управління пакетами для платформи .NET, що дозволяє легко додавати бібліотеки в проекти.

Nginx – веб-сервер з відкритим кодом, який також може працювати як зворотний проксі-сервер і балансувальник навантаження.



Node – вузол (елемент мережі або системи).

Nginx – веб-сервер і зворотний проксі-сервер.

Namespace – простір імен (механізм, який дозволяє розмежовувати імена змінних, функцій тощо).

Network – мережа (система з'єднаних між собою комп'ютерів або пристроїв).

Neural Network — нейронна мережа (модель у машинному навчанні, яка імітує роботу людського мозку).

Null – нульове значення (відсутність значення в програмуванні).

NLP (Natural Language Processing) – обробка природної мови (галузь штучного інтелекту).

NAT (Network Address Translation) – трансляція мережевих адрес.

Node.js – платформа для запуска серверного JavaScript.

Nonce – однократне випадкове значення, використовується для шифрування або аутентифікації.

NFS (Network File System) – мережевий файловий протокол.

NoSQL – тип баз даних, які не використовують реляційний підхід.

Normalization – нормалізація (процес структурування даних).

NPM (Node Package Manager) – менеджер пакетів для JavaScript.

NIC (Network Interface Card) – мережева карта (інтерфейсний адаптер для підключення до мережі).

Nagios – система моніторингу для мереж і серверів.

Network Security - мережева безпека.

Notebook – записник або інтерактивне середовище для виконання коду, як у Jupyter.

NFT (Non-Fungible Token) – незамінний токен, унікальний цифровий актив на блокчейні.



Object – об'єкт (основний елемент об'єктно-орієнтованого програмування).

Open Source – відкритий код (програмне забезпечення з відкритим вихідним кодом, яке можна змінювати і поширювати).

Operating System (OS) – операційна система (програмне забезпечення, що керує апаратними ресурсами комп'ютера).

OAuth – протокол авторизації, що дозволяє передавати інформацію про аутентифікацію між сервісами без передачі паролів.

ORM (Object-Relational Mapping) – об'єктно-реляційне відображення (технологія, яка дозволяє перетворювати дані між базами даних і об'єктами в програмуванні).

OOP (Object-Oriented Programming) – об'єктно-орієнтоване програмування (парадигма програмування, що базується на об'єктах і класах).

Optimization – оптимізація (процес підвищення ефективності програмного коду або систем).

Overflow – переповнення (ситуація, коли значення перевищує обсяг пам'яті, що виділено для його зберігання).

Orchestration – оркестрація (автоматизація управління складними системами або процесами, часто використовується в DevOps).

OAuth2 — оновлена версія OAuth, протокол аутентифікації і авторизації для захищеного доступу до ресурсів.

Octet – восьмибітний блок даних, аналог байта.

On-premises – рішення, яке розміщується на локальних серверах компанії, а не в хмарі.

Observability – спостережуваність (здатність системи надавати інформацію про свою роботу та стан у реальному часі).

Opcode – операційний код (інструкція процесора).

OpenGL – стандарт для рендеринга 2D та 3D графіки.

Outage – збій у роботі системи або сервісу.

Operator – оператор (символ або функція, що виконує операції над змінними в програмуванні).

Overhead – накладні витрати (додаткові ресурси, необхідні для виконання задачі або процесу).

Object Storage – об'єктне сховище даних (тип системи зберігання, в якій дані організовані у вигляді об'єктів).

Optical Fiber – оптоволокно (середовище для передачі даних за допомогою світлових імпульсів).



Packet – пакет (одиниця передачі даних у мережі).

Protocol – протокол (набір правил для передачі даних у мережі).

Programming – програмування (процес створення програмного забезпечення).

Python – мова програмування високого рівня.

Port – порт (віртуальна точка підключення для передачі даних між комп'ютерами або програмами).

Ргоху – проксі (сервер, що діє як посередник між клієнтом і іншим сервером).

PaaS (Platform as a Service) – платформа як сервіс (модель хмарних обчислень, що забезпечує середовище для розробки додатків).

Pipeline – конвеєр (послідовність процесів або етапів обробки даних або виконання завдань).

Polymorphism – поліморфізм (здатність об'єктів різних типів реагувати на одні й ті ж методи).

Patch – патч (виправлення програмного забезпечення, яке усуває помилки або покращує функціонал).

Packet Switching – комутація пакетів (метод передачі даних, де повідомлення розбивається на менші частини – пакети).

Perl – мова програмування, особливо популярна в системному адмініструванні та обробці тексту.

Permission – дозвіл (права доступу до файлів або ресурсів).

Public Key – публічний ключ (ключ для шифрування даних, який може бути відкритим для всіх).

Private Key – приватний ключ (секретний ключ, який використовується для дешифрування даних або підпису).

Phishing – фішинг (шахрайська техніка для отримання конфіденційної інформації).

Ping – утиліта для перевірки доступності хостів у мережі.

Proxy Server – проксі-сервер (сервер, який діє як посередник для запитів від клієнтів до інших серверів).

Pivot Table – зведена таблиця (інструмент для обробки даних у електронних таблицях).

Pixel – піксель (найменший елемент зображення на екрані).

РНР – мова програмування для розробки веб-додатків.

Process – процес (виконання програмного коду або завдання в операційній системі).

PostgreSQL – система управління реляційними базами даних з відкритим вихідним колом.

PowerShell – автоматизаційна оболонка і мова сценаріїв для Windows.

Penetration Testing (Pentest) – тестування на проникнення (процес виявлення вразливостей у систем безпеки).



Query – запит (інструкція або команда для отримання даних із бази даних або іншої системи).

Queue – черга (структура даних або механізм для зберігання елементів у порядку їх надходження).

Quicksort – швидке сортування (алгоритм сортування, який працює за принципом "розділяй і володарюй").

QoS (Quality of Service) – якість обслуговування (технології для управління та оптимізації продуктивності мережі).

Quorum – кворум (мінімальна кількість учасників або вузлів, необхідна для прийняття рішення в розподілених системах).

Quantum Computing – квантові обчислення (нова парадигма обчислень, заснована на принципах квантової механіки).

Quick Response Code (QR Code) – QR-код (двовимірний штрихкод, який може бути сканований для швидкого доступу до інформації).

Qubit – кубіт (основна одиниця інформації в квантових обчисленнях, аналог бітів у класичних комп'ютерах).

Query Language – мова запитів (мова для взаємодії з базами даних, наприклад, SQL). Quiesce – стан спокою (переведення системи в стан, коли всі активні процеси завершені або тимчасово зупинені).

Quota – квота (обмеження на використання ресурсів, наприклад, дискового простору або мережевої пропускної здатності).

QEMU – відкрита програма для емуляції апаратного забезпечення та віртуалізації.

## R

Router – маршрутизатор (пристрій для пересилання даних між комп'ютерними мережами).

RAM (Random Access Memory) – оперативна пам'ять (енергонезалежна пам'ять, яка використовується для тимчасового зберігання даних).

REST (Representational State Transfer) – архітектурний стиль для створення вебсервісів.

Repository – репозиторій (місце зберігання коду або інших даних, як-от GitHub).

Runtime – час виконання (період, коли програма виконується).

Regular Expression (RegEx) – регулярні вирази (шаблони для пошуку і маніпулювання текстом).

RPC (Remote Procedure Call) – віддалений виклик процедур (технологія, що дозволяє одній програмі виконувати процедури на іншому комп'ютері).

RDBMS (Relational Database Management System) – система управління реляційними базами даних.

React – JavaScript-бібліотека для створення інтерфейсів користувача.

Recursive – рекурсивний (алгоритм або функція, яка викликає сама себе для вирішення задачі).

Redundancy – надлишковість (введення додаткових компонентів для підвищення надійності системи).

Rollback – відкат (процес скасування змін у базі даних або іншій системі).

RSA (Rivest-Shamir-Adleman) – криптографічний алгоритм з відкритим ключем.

Root – кореневий доступ (найвищий рівень привілеїв у системі).

Relational Database – реляційна база даних (база даних, яка організована у вигляді таблиць, пов'язаних між собою).

Redis — база даних типу key-value, яка працює в оперативній пам'яті.

Rollback Segment – сегмент відкату (частина бази даних, яка використовується для зберігання інформації про незавершені транзакції).

Round Robin – алгоритм розподілу ресурсів або процесів по колу.

Replication – реплікація (процес копіювання даних з однієї бази даних до іншої для забезпечення надійності та доступності).

Responsive Design – адаптивний дизайн (підхід до веброзробки, що забезпечує правильне відображення сайту на різних пристроях).

S

Server – сервер (пристрій або програма, що надає ресурси або послуги іншим пристроям або програмам в мережі).

SQL (Structured Query Language) – мова структурованих запитів для роботи з реляційними базами даних.

SSH (Secure Shell) – протокол для захищеного віддаленого доступу до серверів.

SSL (Secure Sockets Layer) – криптографічний протокол для забезпечення захищеного з'єднання через Інтернет.

SaaS (Software as a Service) – програмне забезпечення як послуга (модель надання програм через Інтернет).

Switch – комутатор (мережевий пристрій, що пересилає дані між пристроями в локальній мережі).

Script – сценарій (набір команд або інструкцій, які виконуються послідовно).

Scrum – методологія управління проєктами, особливо популярна в Agile-розробці.

Scaling – масштабування (процес збільшення або зменшення ресурсів системи для відповідності потребам).

SDK (Software Development Kit) – набір інструментів для розробки програмного забезпечення.

Snapshot – знімок (фіксація стану системи або даних у певний момент часу).

SQL Injection – ін'єкція SQL (тип атаки, яка дозволяє виконати несанкціоновані SQL-запити до бази даних).

Session – сесія (період взаємодії між користувачем і сервером або програмою).

Stack – стек (структура даних, яка працює за принципом "останній прийшов, перший пішов").

Source Code – вихідний код (код програми, написаний на мові програмування, доступний для читання і редагування).

Subnet – підмережа (частина комп'ютерної мережі, виділена в межах більшої мережі).

SOAP (Simple Object Access Protocol) – протокол обміну структурованими даними між системами через Інтернет.

Storage – сховище (місце для зберігання даних, наприклад, на жорсткому диску або в хмарі).

Semaphore – семафор (механізм синхронізації доступу до спільних ресурсів у багатопотоковому програмуванні).

SQL Server – система управління реляційними базами даних від Microsoft.

Scalability – масштабованість (здатність системи до зростання, підтримуючи ефективність і продуктивність).

Spam – спам (небажані або масові повідомлення, особливо в електронній пошті).

Shell – командна оболонка (інтерфейс для взаємодії з операційною системою через команди).

Spring – фреймворк для розробки Java-додатків.

Spyware — шпигунське  $\Pi$ 3 (шкідливе програмне забезпечення для збору інформації про користувача без його відома).



TCP (Transmission Control Protocol) – протокол керування передачею (основний протокол Інтернету для передачі даних).

Thread – потік (найменша одиниця виконання програми в багатозадачній системі).

Token – токен (об'єкт, що представляє собою право доступу або іншу інформацію, використовується в аутентифікації).

TLS (Transport Layer Security) — протокол для забезпечення захищеного з'єднання через Інтернет.

Tuple – кортеж (структура даних, яка містить фіксовану кількість елементів).

Transaction – транзакція (послідовність операцій з даними, які виконуються як одна неподільна одиниця).

Tunneling – тунелювання (процес передачі даних через інші протоколи для забезпечення безпеки або функціональності).

TypeScript – мова програмування, яка  $\epsilon$  надмножиною JavaScript і дода $\epsilon$  статичну типізацію.

Trigger – тригер (автоматизована процедура, яка викликається у відповідь на певну подію в базі даних).

Tokenization – токенізація (процес розбиття тексту на менші частини – токени, або заміна конфіденційної інформації токенами).

Throughput – пропускна здатність (кількість даних, що можуть бути передані через систему за одиницю часу).

Tab – вкладка (елемент інтерфейсу користувача, що дозволяє переключатися між різними сторінками або розділами програми).

Table – таблиця (структура для організації даних в базі даних або електронній таблиці).

TCP/IP (Transmission Control Protocol/Internet Protocol) — набір протоколів для з'єднання і передачі даних в Інтернеті.

Throttling – обмеження продуктивності (контроль або обмеження швидкості виконання процесів або передачі даних).

Test Case – тестовий випадок (набір умов і кроків, що використовуються для перевірки функціональності програми).

TDD (Test-Driven Development) – розробка через тестування (методологія розробки, при якій тести пишуться перед кодом).

Tag — ter (елемент для позначення або класифікації даних, часто використовується в HTML ta XML).

Traffic – трафік (обсяг даних, що передається через мережу).

Terminal – термінал (інтерфейс для взаємодії з операційною системою через командний рядок).

TTL (Time to Live) — час життя (параметр, що вказу $\epsilon$ , скільки часу або стрибків пакету залишилося перед видаленням з мережі).

Token Ring – топологія мережі, де комп'ютери з'єднані в кільце і передають токен для управління доступом до мережі.

Terraform – інструмент для автоматизації управління інфраструктурою як кодом.

Turing Machine – машина Тюрінга (математична модель обчислень, яка використовується для вивчення алгоритмів і теорії обчислень).

Topology – топологія (спосіб організації або з'єднання елементів у мережі або системі).



UDP (User Datagram Protocol) – протокол передачі датаграм користувача, забезпечує швидку, але ненадійну передачу даних.

URL (Uniform Resource Locator) – уніфікований вказівник ресурсу, адреса для доступу до ресурсів в Інтернеті.

UI (User Interface) – інтерфейс користувача, система взаємодії між користувачем і програмним забезпеченням.

UX (User Experience) – досвід користувача, загальне враження користувача від взаємодії з продуктом чи послугою.

UML (Unified Modeling Language) – уніфікована мова моделювання, стандарт для створення діаграм і моделювання систем.

Unicode – стандарт кодування, який охоплює всі символи світу, дозволяє підтримувати багато мов в одному наборі символів.

Uptime – час безперервної роботи системи або сервісу без збоїв.

USB (Universal Serial Bus) – універсальна послідовна шина, стандарт інтерфейсу для підключення зовнішніх пристроїв до комп'ютера.

URI (Uniform Resource Identifier) – уніфікований ідентифікатор ресурсу, строка, яка визначає ім'я або адресу ресурсу.

User Agent – агент користувача, програмне забезпечення, яке діє від імені користувача, наприклад, веб-браузер.

Usability – зручність використання, міра ефективності, з якою користувачі можуть досягти своїх цілей за допомогою системи.

Update – оновлення, процес внесення змін або покращень до програмного забезпечення або системи.

Upgrade – модернізація, процес переходу на нову версію апаратного або програмного забезпечення.

UUID (Universally Unique Identifier) – універсальний унікальний ідентифікатор, 128бітове число для ідентифікації об'єктів.

Unicast – одностороння передача даних з одного відправника до одного отримувача в мережі.

Unix – багатокористувацька, багатозадачна операційна система, яка  $\epsilon$  основою для багатьох сучасних OC.

Underflow – переповнення знизу, ситуація, коли результат операції менший за допустиме значення типу даних.

Unit Testing – модульне тестування, процес тестування окремих модулів або компонентів програми.

Unstructured Data – неструктуровані дані, інформація, яка не має чіткої структури, наприклад, текст або мультимедійні файли.

UTF (Unicode Transformation Format) – формат кодування Unicode, що дозволяє кодувати символи змінним числом байтів (наприклад, UTF-8).



VPN (Virtual Private Network) – віртуальна приватна мережа, створює захищене з'єднання через Інтернет.

Version Control – контроль версій, система для відстеження змін у файлах і координації роботи над ними.

Virtualization – віртуалізація, технологія, що дозволяє створювати віртуальні ресурси (сервери, мережі, сховища).

VM (Virtual Machine) – віртуальна машина, програмна емуляція фізичного комп'ютера.

VLAN (Virtual Local Area Network) – віртуальна локальна мережа, логічне розбиття фізичної мережі на сегменти.

VCS (Version Control System) – система контролю версій, наприклад, Git або Subversion.

VGA (Video Graphics Array) – стандарт для виведення відео, використовується для моніторів і дисплеїв.

Volatile Memory – енергозалежна пам'ять, яка втрачає дані після вимкнення живлення (наприклад, оперативна пам'ять).

Vendor – постачальник або виробник апаратного чи програмного забезпечення.

Vulnerability – вразливість, слабке місце в програмі або системі, яке може бути використане для атаки.

Viewport – вікно перегляду, область на екрані, яка відображає вміст, наприклад, в браузері або графічних додатках.

VoIP (Voice over Internet Protocol) – голос через Інтернет-протокол, технологія для передавання голосу через Інтернет.

Validation – валідація, перевірка коректності або відповідності даних заданим критеріям.

Vector Graphics – векторна графіка, зображення, що складаються з геометричних примітивів, таких як лінії і криві.

Virtual Reality (VR) – віртуальна реальність, комп'ютерно змодельоване середовище, яке відчувається як реальне.

Verbose – докладний режим (наприклад, виведення додаткової інформації при виконанні команди або програми).

Varnish – високопродуктивний HTTP-кешер для прискорення вебдодатків.

Variable – змінна, іменований простір в пам'яті для зберігання значень, які можуть змінюватися під час виконання програми.

Visibility – видимість, концепція, що визначає, які елементи коду (змінні, методи) доступні в різних частинах програми.

Viewport Meta Tag – мета-тег у HTML, який визначає, як вебсторінка відображатиметься на мобільних пристроях.

## W

Web – веб, частина Інтернету, яка включає вебсайти та веб-додатки.

WWW (World Wide Web) – всесвітня павутина, система гіпертекстових документів, доступних через Інтернет.

WLAN (Wireless Local Area Network) – бездротова локальна мережа, яка дозволяє пристроям підключатися до мережі без фізичних кабелів.

Wi-Fi — технологія бездротової передачі даних, що дозволяє пристроям підключатися до Інтернету або локальної мережі.

W3C (World Wide Web Consortium) – організація, що розробляє стандарти для веба.

Web Browser – веб-браузер, програма для перегляда веб-сторінок (наприклад, Chrome, Firefox).

Web Server — веб-сервер, програма або пристрій, що обробляє запити на вебсторінки та надає їх користувачам.

Workflow – робочий процес, послідовність завдань або операцій, які виконуються для досягнення певної мети.

Web Application – веб-додаток, програма, доступна через веб-браузер.

Web Development – розробка веб-сайтів і веб-додатків.

WYSIWYG (What You See Is What You Get) – "те, що ви бачите, те й отримуєте", редактор, який показує, як буде виглядати готовий продукт.

Web API — веб-інтерфейс програмування додатків, набір правил для взаємодії між програмами через Інтернет.

WordPress – популярна система управління контентом (CMS) для створення та керування веб-сайтами.

WebSocket – протокол для забезпечення двостороннього зв'язку між клієнтом і сервером через веб.

Wrapper – обгортка, структура, яка додає функціональність до існуючого коду або API.

White Hat - "білий капелюх", етичний хакер, який використовує свої навички для захисту систем.

Web Hosting – хостинг веб-сайтів, послуги, що дозволяють зберігати сайти на серверах для доступа через Інтернет.

Watchdog – механізм моніторингу, що перевіряє систему або програму на наявність збоїв або помилок.

Workstation – робоча станція, потужний комп'ютер, призначений для технічних або наукових завдань.

Wiki — вікі, веб-сайт, який дозволяє користувачам спільно редагувати та створювати вміст.

Workflow - Робочий процес



XML (eXtensible Markup Language) – розширювана мова розмітки, використовується для опису структурованих даних.

XSS (Cross-Site Scripting) – міжсайтовий скриптинг, тип вразливості, що дозволяє зловмисникам вбудовувати скрипти в веб-додатки.

XAML (eXtensible Application Markup Language) – мова розмітки, використовувана для опису графічного інтерфейсу в додатках на .NET.

XPath (XML Path Language) – мова запитів для навігації в XML-документах.

XOR (Exclusive OR) — логічна операція, яка повертає істину, якщо одна з операндів істинна, а інша — хибна.

Xcode – інтегроване середовище розробки (IDE) для macOS, призначене для створення додатків на платформах Apple.

Xen – технологія віртуалізації, яка дозволяє запускати кілька віртуальних машин на одному фізичному сервері.

X.509 — стандарт для формата публічних ключів та сертифікатів в системах аутентифікації.

XMPP (Extensible Messaging and Presence Protocol) – розширюваний протокол обміну повідомленнями та присутністю, який використовується для реального часу комунікації.

XServer – компонент системи X Window, що відповідає за графічний інтерфейс в Unix-подібних операційних системах.



YAML (YAML Ain't Markup Language) – мова розмітки, яка використовується для серіалізації даних, популярна для конфігураційних файлів.

Y2K (Year 2000 Problem) – проблема з комп'ютерними системами, що виникла через використання двох цифр для позначення року (наприклад, "99" для 1999).

Yottabyte – одиниця вимірювання інформації, рівна 102410<sup>4</sup>24 байтів.

Yellow Hat – термін, що використовується для опису етичних хакерів, які тестують безпеку системи на предмет вразливостей, зазвичай в рамках легального договору.

Yield – у контексті програмування, ключове слово, яке використовується для повернення значення з генератора в Python.

Yubikey — апаратний пристрій для двофакторної аутентифікації, що забезпечує додатковий рівень безпеки для входа в системи.

## $\mathbf{Z}$

Zigbee – стандарт бездротової комунікації для низькоенергетичних пристроїв, часто використовуваний у систем автоматизації та IoT.

ZFS (Zettabyte File System) – файлова система, розроблена для забезпечення високої надійності та продуктивності з можливістю управління великими обсягами даних.

Zip – формат стиснення файлів, що дозволяє зменшувати їх розмір для зберігання або передачі.

Zero-Day – вразливість у програмному забезпеченні, для якої ще не існує патчу або виправлення на момент її виявлення.

Zig – мова програмування, що акцентує увагу на продуктивності, безпеці та простоті використання.

Z-Index – властивість CSS, що визначає порядок накладання елементів у двовимірному просторі.

Zettabyte – одиниця вимірювання даних, рівна 102110<sup>^</sup> {21}1021 байтів.

Zoom – платформа для відеоконференцій, що набула популярності для віддаленого спілкування та онлайн-зустрічей.

Zookeeper — система для управління розподіленими додатками, яка забезпечує централізоване управління конфігураціями та синхронізацію.

Z-Buffer — технологія рендерингу у 3D-графіці, що використовується для визначення, які об'єкти повинні бути видимими у сцені.

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# ДЛЯ НОТАТОК


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## ГОЛЬЦЕВА Марія Ігорівна МЕЛЬНИК Оксана Володимирівна

# АНГЛІЙСЬКА МОВА ДЛЯ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ

## Навчальний посібник 1 курс



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