**Вагнер А.А. 5130901/20003**

**Linkers: 10, Vocabulary: 25, Total: 613**

**Spring 2023-2024 Term 4**

**ИКНТ/ИКиЗИ/ФизМех**

**Monologue on *COMPUTER ESSENTIALS (UNIT 2)***

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| **Step 1. Introduction**  1. Start with a hook sentence that will attract the listener’s attention, a quote, a proverb, etc.  2. Lead your speech steadily to the main part of your talk.  3. The introduction may consist of 3-6 sentences. | Imagine a world without computers. It's like trying to navigate a ship without a compass or sail through a storm without a rudder. As Steve Jobs once said, 'It's not the tools that you have faith in - tools are just tools. They work, or they don't work.' In today's digital age, understanding computer essentials is not just a luxury but a necessity. From basic troubleshooting to cybersecurity measures, these skills are the building blocks of our technological society. |
| **Step 2. How do computers work?**  2.1. Hardware, software, input. What are they?  2.2. How do hardware and software work together? | Hardware refers to the physical components of a computer system, such as the central processing unit (CPU), monitor, keyboard, and printer. These components work together to accomplish tasks and perform calculations.  Software, on the other hand, consists of programs and applications that are installed on the computer. Software provides instructions for the hardware to follow and allows users to interact with the computer system.  When hardware and software work together, the hardware components make up the central processing unit of the computer, while the software provides the input and receives commands from the user. For example, a user may click on an icon or enter a command on the computer to send information over a cable to a printer. The hardware devices then turn on and execute the commands given by the software to complete the task at hand. |
| **Step 3. History of computing**  3.1. Speak about the main milestones in the history of computing.  3.2. Describe the PC you have. | The history of computing has seen remarkable milestones, from massive machines that used to take up entire rooms to sleek devices that fit on one's desktop. Computers have evolved from cumbersome and slow devices to quick and smart machines with incredible processing power.  Charles Babbage is credited with inventing the computer, creating the first freely programmable mechanical computing device. These early computers were used to complete calculations, speed up computations, and keep track of numerous results. They had a memory to store the results of each step, using vacuum tubes instead of electric motors and levers.  As for the PC I have, it is a modern laptop that combines portability with powerful capabilities. It allows me to work, study, and connect with others seamlessly. Its compact design and advanced technology make it an essential tool in today's digital world. |
| **Step 4. Supercomputers**  4.1. What is a supercomputer?  4.2. How does a supercomputer work? Give examples of supercomputers. Суперкомпьютерный центр СПбПУ. | A supercomputer is a high-performance computing machine designed to develop transistors and integrated circuits. It is capable of crunching a complex problem quickly by taking in information through input and generating output. Unlike regular computers, supercomputers use parallel processing instead of serial processing, allowing them to use a significant amount of processing power to do many things at once. They can double the memory capacity and upgrade components like processors and memory for better performance. Supercomputers split a problem into chunks to solve it efficiently. Examples of supercomputers include the Tianhe-2 in China, the Summit in the United States, and the Fugaku in Japan. The Supercomputer Center of SPbPU (Saint Petersburg Polytechnic University) also houses powerful supercomputers for research and computational tasks. |
| **Step 5. CREATIVE THINKING**  Introduce your own extra idea(s) on advertising that hasn’t/haven’t been mentioned before. Substantiate your choice. | One essential computer accessory that hasn't been mentioned yet is a high-quality ergonomic keyboard. Ergonomic keyboards are designed to reduce strain on the wrists and hands, making typing more comfortable and preventing long-term injuries like carpal tunnel syndrome. These keyboards often have a split design and a curved layout that promotes a more natural hand position while typing. From my point of view, such devices are must-have for office workers and other people whose occupation demands long-term typewriting sessions. |
| **Step 6. Conclusion**  Summarise the ideas of steps 2,3,4,5. | In conclusion, computers have become an integral part of our daily lives, from the basic hardware components to the sophisticated software programs that drive them. Understanding the essentials of computer technology is crucial in navigating the digital world we live in today and keeping in touch with all the amazing features that computers can offer. |