

Cyber Saturday: Basic Computer Repair, Java Programming Introduction, and Basic Ethical Hacking

Upskill IT workshop held a virtual seminar last September 11, 2021 to have a quick discussion about computer repair, introduction to java programming language, and ethical hacking.

In this webinar I learned the basic common issue of computer which is lagging or slowing down of computer. When encountering this kind of problem, usually it is because there's no more space in the memory, the data that comes in the computer takes so much space, or it is slow by nature because it's second hand with low specs. To fix this, we can clear up some space, or clean up the computer because it might be already dusty. Another way to avoid lagging is to consider the specs when buying a new computer, or laptops. The specs of CPU should be Intel core I series, must have 8GB ram, 256GB SSD.

Next topic is about the basic of Java language – a high level object oriented programming language use for mobile app development, embedded systems, IoT, or chatbots, and more. In Java it is important that the file name should be the same to class name, else the program will throw an error. The different data types were also discussed such as the int, float, string, char, and boolean. They also discussed about the conditional statement – the if-else statement. And the do-while, while, and for loop.

Last topic discussed in the webinar is the introduction to ethical hacking using Kali Linux. Hacking is seeking to compromise digital devices, such as computers, smartphones, or tablets, and even entire networks. There are three types of hackers the black hat, white hat, and grey hat hackers. However, today there are added types of hackers like script kiddies, green hat hacker, blue hat hacker, red hat hacker, and state/nation sponsored. Virtual machines, which hackers use, this operates multiple OS at the same time from the same piece of hardware. The speaker then showed how hackers penetrate devices using the kali Linux. The speaker also shared websites where you can see open sources CCTV footages, like the Shodan website. One important note in this topic is that hackers uses some specific keywords in researching about their target, they do this to research to know where they can penetrate.