

## Exercise 1

### 1) What is Computer?

-According to computerHope (2024), computer is a machine that reads information and data. Also, modern computers run by using programs. Also, it needs programming language to run a software in a computer. Also, computer needs operating system, the operator of the computer., software, as the program of the computer., and the hardware, the organ of a computer.

### 2) What are the essential parts of computer?

-The basic parts of a computer to work is monitor, the mouse, keyboard, power cord, and the Cpu itself. But to run a computer properly (Lee, 2024), you need these things to work:

The motherboard, also known as the foundation of the computer., the processor (CPU), the heart of the computer. It also executes the program made by the user. RAM (random access memory), the brain of the computer because it reads and stores data.,

the power supply, this is like the glucose of the computer, it generates energy or for the computer to work. And lastly, the hard drive, also known as storage of a computer.

Video card, also known as GPU can be optional because modern CPU's have built-in graphics and it's called integrated graphics.

### 3) Who are the notable inventors of hardware and software?

Software developers:

Tim Berners-Lee, the man who made WWW or World wide Web in 1989. WWW is used in all public website that can be accessed through the use of internet.

Bill Gates, the man who made Microsoft. Microsoft is the world's largest computer software company. Microsoft is known because they introduced MS-DOS, an operating system that was owned by Bill Gates and Paul Allen to IBM PC, the world's largest computer maker in the world. And they introduced MS-BOS to other companies as well and that is the reason why they are known until now.

Mark Zuckerberg, the owner of Facebook. In 2004, Zuckerberg made facebook for students to match names with photos of classmates. And in 2012, Zuckerberg decided to make Facebook open to all internet users.

Steve Jobs, owner of Apple. He and his friend Steve Wozniak thought to build a first ready-made PC. Also, Jobs and Wozniak are known as hackers, they built a device called the telephone blue box, a device used to access free illegal calls in a long distance.

Sergey Brin, co-founder of Google. They built google as search engine that can access WWW to all users.

Hardware developers:

Gordon Moore, Founder of Intel. Intel is known by building the first ever processor for pc, and it's called Intel 4004.

Philip Don Estridge, Inventor of the first IBM Personal Computer (PC). The American Engineer who built the first computer, he is also known as the father of the IBM PC".

Chris Malachowsky, owner of NVIDIA. NVIDIA is known for their remarkable video cards. Chris Malachowsky, Jensen Huang, and Curtis Preim researched about how important graphic-based computing in video games, and the idea came through.

Robert Heath Dennard, the maker of RAM (Random Access Memory). Dennard invented DRAM or Dynamic Random Access Memory, the goal of his work is to increase the computer memory density while reducing its cost.

Douglas Engelbart, the inventor of mouse (input device). Douglas Engelbert invent the mouse because of his experiment, to find a way to easily point or click something in the monitor.

4) Cite your reference/s

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