

Computer Organization

Fundamentals



First Stage Lecture -6

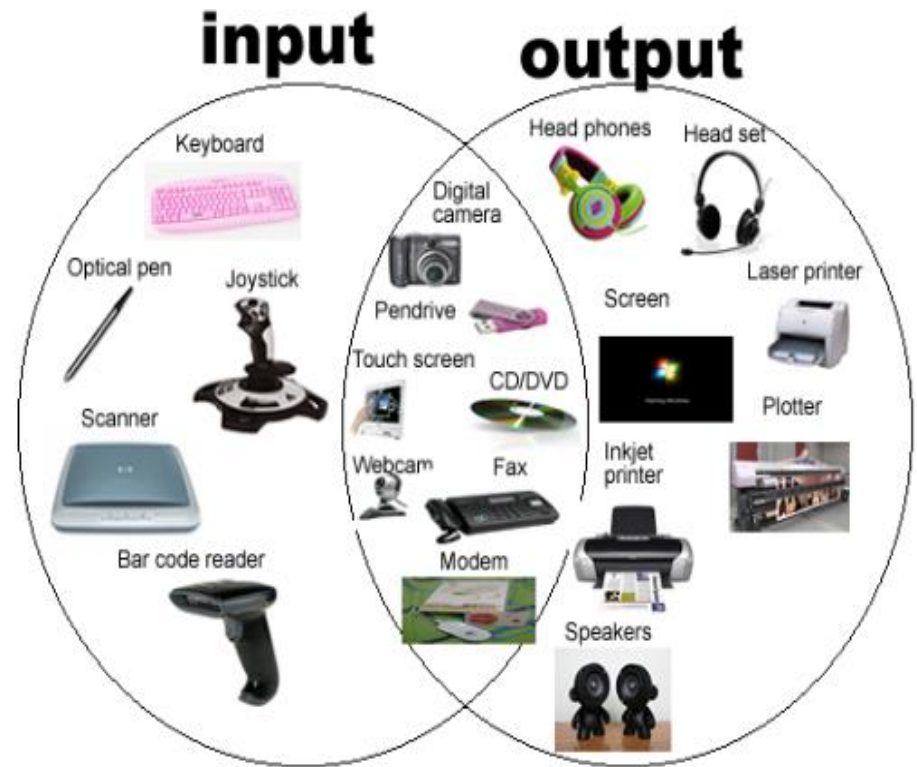
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External Hardware Computer Components

External computer components connect to a computer system from **OUTSIDE**. They are not necessary for the system to function but make our experiences easier or better. We will discuss the following:

- **Input Devices** : used to get data into a computer.
- **Output Devices** : used to get information out of a computer





Input Devices

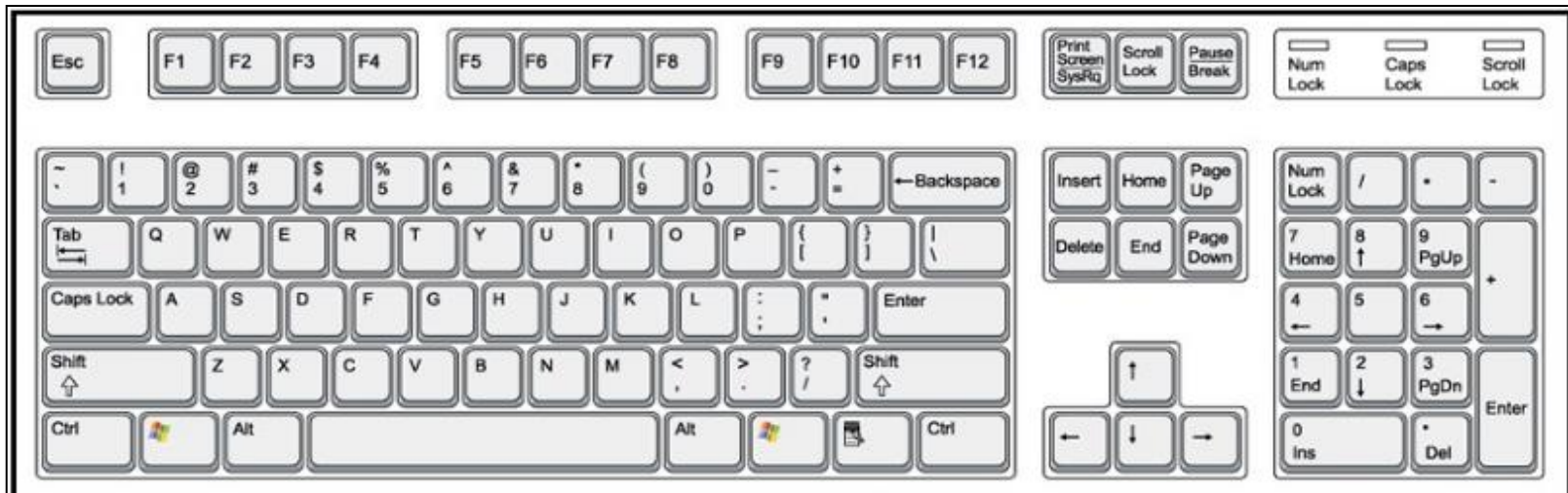
- Input devices are pieces of hardware that get **raw data into the computer** ready for processing.
- Processing involves taking raw data and turning it into more useful information.





1 Keyboard

- Keyboard is the **most common** and **very popular** input device which helps in inputting data to the computer.
- The layout of the keyboard is like that of **traditional typewriter**, although there are some additional keys provided for performing **additional functions**.





2 Mouse

- Mouse is most popular *pointing device* .
- It can be used to control the position of *cursor* on screen, but it cannot be used to enter text into the computer.
- *Easy* to use and *Moves* the cursor *faster* than the arrow keys of keyboard.
- Generally it has two buttons called left and right button and scroll wheel is present between the buttons.





3 Scanner

- ◆ **Scanner** is an input device which works more like a **photocopy machine**.
- ◆ Scanner: captures images from the source which are then converted into the digital form that can be stored on the computer or on the disc.





4 Microphone

- Microphone: is an input device to input sound that is then stored in digital form.
- The microphone is used for various applications like adding sound to a multimedia presentation or for mixing music.





5 Touch Screen

- Touch Screen is the easiest way to input data into computer.
- Touch Screen allows the user to select item by touching the screen at the suitable spot.
- The user's finger become the input device for operating touch screen.





6 Digital Camera

- Digital camera: is one of input device that hold a lot of photo which can be transferred easily into the computer. it takes a photograph by using sensors to capture the light that comes in through the lens. A digital camera also has software that lets you delete unwanted photos while they are still stored in the camera.





6 Digital Camera

- Webcam: is a video camera which is designed to record or stream to a computer or computer network. They are primarily used in videotelephony, livestreaming and social media, and security. Webcams can be built-in computer hardware or peripheral devices, and are commonly connected to a device using USB or wireless protocols.

