

Lecture -7

C.S.M.C.T.U

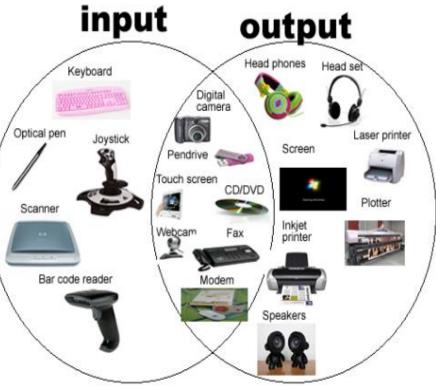
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External Hardware Computer Components

Sectornal 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

Output Devices

- An output device is any peripheral device that receives data from a computer, usually for display, projection, or physical output.
- Following are few of the important output devices which are used in a computer.



Monitor

Monitors, commonly called as Visual Display Unit (VDU), are the main output device of a computer. It forms images from tiny dots, called pixels that are arranged in a rectangular form. The sharpness of the image depends upon the number of pixels.

- There are two kinds of viewing screen used for monitors.
 - Cathode-Ray Tube (CRT)
 Flat- Panel Display







• A **printer** is an external hardware output device responsible for taking electronic data stored on а computer or computing device and generating a hard copy of that data. PHOTO PRINTER Printers are one of the most commonly used peripherals on computers and are commonly used to print text and photos.



INKJET PRINTER

LASERJET PRINTER



MULTI FUNCTION PRINTER

The projector is an output device that can take images generated by a computer and reproduce them on a large, flat (usually lightly colored) surface.

Projector



For example, you could connect a projector to a computer using an HDMI cable to show a presentation in a meeting so that everyone in the room can see your presentation.



4 Speakers

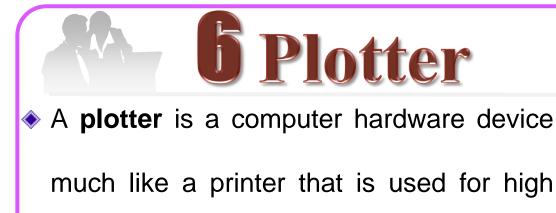
- A speaker is a term used to describe the user who is giving vocal commands to a software program.
- A hardware device connected to a computer's sound card that outputs sound generated by the computer.
- Because computer sound cards are not powerful enough to power a nice set of speakers, today's speakers are selfpowered and small in size.



5Headphones

- Sometimes referred to as **earphones** or **head set**.
- Headphones are a hardware device that either plugs into your computer (line out) or your speakers to privately listen to audio without disturbing anyone else.





print quality.

Instead of toner, plotters use a pen, pencil,

marker, or another writing tool to print a

very large pictures, maps, etc.

 Plotters can also produce very large and accurate documents such blueprints (plans) for buildings.

