

Chapter 6

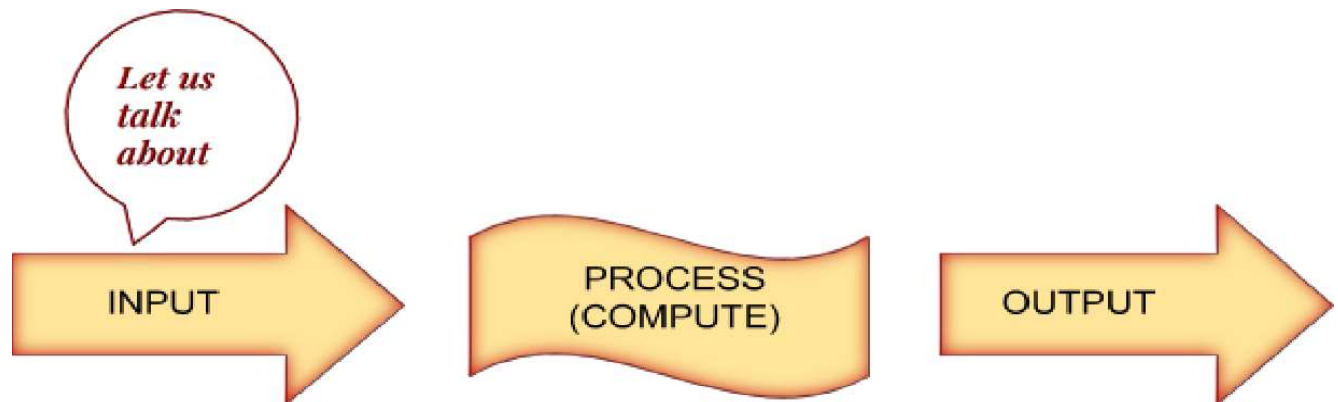
Physical Parts Of Computer

In chapter 5, we learnt about Hardware and Software. We also looked into the definition of computer from the perspective of

- ⇒ Input
- ⇒ Process
- ⇒ Output

In this chapter we will learn about different hardware components.

Input Hardware Devices



In this topic we will cover the **input component** of the computer system. So far we have learnt that the computer receives “**input**” and “**processes**” it to produce the “**output**”.

Thus the devices that enable users to send input to the computer are called Input Devices. This input can be a form of data, information or signals.

Some popular input devices are:

-  Keyboard
-  Mouse
-  Touchpad
-  Microphone
-  Scanner
-  Webcam

Keyboard:

Keyboard is a **basic input data device**. This is used to enter data into a computer. It allows the user to type in **text, numeric and execute commands** with the help of function keys on the keyboard. Keyboard comes in various different types based on the region, language and hand postures.



Mouse:

Mouse is another basic input data device.

It is used to **move the cursor** across the **screen**.

It has a **detection device** and is mostly used on flat surfaces.

Most common mouse has **left** and **right** buttons with a **Scroll wheel** between them.

To select items or choose commands on the screen, the user presses a button on the mouse.



Touchpad:

Touchpad does the same job as Mouse.

A Touchpad is like a ***magic mat*** that helps you **move** the arrow on the screen by touching it with your fingers instead of using a mouse.

Touchpads are mostly inbuilt in a keyboard with a **specialized sensory surface**. This surface detects the motion position of a user's fingers and moves the cursor on the screen accordingly.



Laptop Touchpad

Microphone:

We use a keyboard to input text into the computer system.

Similarly we use a **microphone** to input sound into the computer system.

A **voice recognition** module in a microphone converts spoken words into information that the computer can recognize and process.



Scanner:

We learnt so far that the keyboard is used to input text and microphone to input sound.

But if **we have to input images or pictures** then we need a special device that can scan.



The scanned picture or document then converted into a Digital format or file that can be manipulated by a computer.

Webcam:

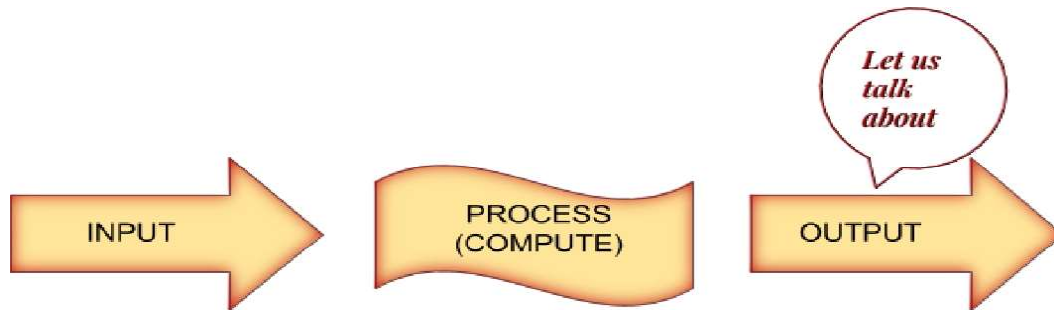
What if you do not want to scan an image which is already available but click a new picture and use that as an input. Or, what if you **want to record a video** and use that as an input.

Webcam is used to do all the above. It is eventually a **camera** that is connected to the computer system. It is either **externally connected or inbuilt** into the computer system.

The job of a webcam is to **take pictures and record videos** that can be used as an input to the computer.



Output Hardware Devices



In this topic we will cover the **output component** of the computer system. So far we have learnt that the computer receives “**input**” and “**processes**” it to produce the “**output**”.

Thus the devices that enable the computer to send output for the user are called Output Devices.

In other words, output is a result of processed input available at the output device.

Some popular output devices are:

-  Monitor
-  Printer
-  Projector

Monitor:

- ✓ Monitors, commonly called as **Visual Display Unit (VDU)**, are the main output device of a computer.
- ✓ It is also commonly referred to as the **Screen** of the computer.
- ✓ It looks very similar to the television set.
- ✓ It is the main output device that displays the processed data or information as text, images, audio or video.



Printer:

- ✓ Printer is used to produce the **hard copies** of the processed data.
- ✓ In other words to print information on paper or any other printable platform.
- ✓ Users can **print images, text or any other information**.
- ✓ Usually input device Scanner and Output device Printer comes in a single machine.



Projector:

- ✓ As the name suggests, a projector is an output device to **project** the output onto a large surface such as a big screen or wall.
- ✓ It is an ideal output device to **give presentations** or to **teach a large number of people**.



Processor (CPU)



In this topic we will cover the **process** component of the computer system. So far we have learnt that the computer receives “**input**” and “**processes**” it to produce the “**output**”.

Thus the device that is responsible for processing the received input and to produce the desired output is called CPU.

Some Facts:

- ✚ CPU stands for “**Central Processing Unit**”.
- ✚ It is considered as the **brain** of the computer
- ✚ It controls the operation of all parts of the computer.
- ✚ CPU performs all types of data processing operations.
- ✚ It stores data, programs and results.

