



**पुर्णमा International School**  
Shree Swaminarayan Gurukul, Zundal

*Class -IV*

*Super Computer*

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# 1. Input and Output devices

- **Focus of the Chapter**

1. Input devices
2. Output devices

- **Introduction**

The computer will be of no use unless it is able to communicate with the outside world. Input/output devices are required for users to communicate with the computer. An input device sends information to a computer system for processing. An input device for a computer allows you to enter information. An output device can receive data from another device, but it cannot send data to another device. There are different devices of the computer that help it to do work.

## **Input Devices**

The devices which are used to input the data and the program in the computer are known as "Input Devices". For the text input, keyboard are used, microphone is used for audio or sound input.



## Keyboard

The keyboard is the most common input device. A 'keyboard' is a human interface device which is presented as a layout of buttons. It is a text-based input device that allows the user to interact with the computer through a set of keys mounted on a board.



## Mouse

After the keyboard, the mouse is the most common type of input device. A mouse makes the process of navigating the screen much easier than trying to use just a keyboard. A mouse usually uses a ball, light or a laser to track movement.



## Joystick

A joystick is an input device consisting of a large pointed stick and input buttons on it. We can use this for playing games on the computer. The joystick is a vertical stick which moves the graphic cursor in a direction the stick is moved. It typically has a button on top that is used to select the option pointed by the cursor.



## **Optical Mark Reader (OMR)**

An OMR is a device which detects alpha numeric characters printed or written on a paper.

## **Magnetic Ink Character Reader (MICR)**

The MICR is an input device or a technology used to verify the original paper documents, especially cheques.

## **Bar Code Reader**

A bar code Reader also called a price scanner or point-of-sale (POS) Scanner, is a hand held or stationary input device, used to read information contained in a bar code.

## **Output Devices**

An output device is used to send data from a computer to another device used. They are pieces of hardware that process data sent from a computer and translate it into a form readable by human. This information can be in any form that includes text, sound, images, etc. Output devices such as a printer, video display or speaker present data from a computer to a user. Thus, we see that output devices are things we use to get information of a computer that has been held or generated within a computer.



## **Monitor**

The Monitor is an output device that resembles with television screen and uses a CRT (Cathode Ray Tube) and LCD (Liquid Crystal Display) to display information. It is associated with a keyboard for manual input of characters and displays the information as it is keyed in. It also displays the program or application output. thus, the monitor displays the results of the computer s activities von the screen.

## Monitor are classified into the following types:

Cathode Ray Tube (CRT)

Monochrome Monitor

LCD or Flat Monitor

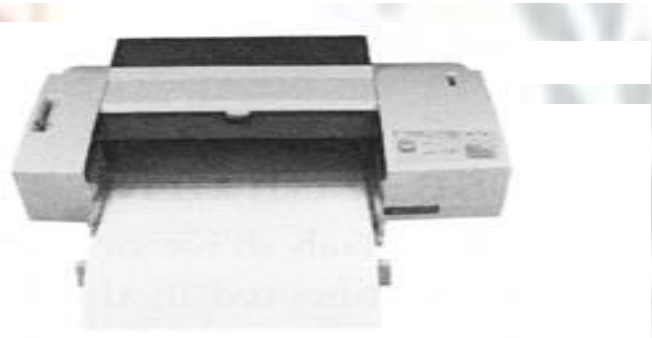


## Printer

Printers are output devices used to produce paper (commonly known as hardcopy) output of documents stored in an electronic form. Based on the technology used, they can be classified as Impact and Non-impact printers.

*Types of impact printer are:*

1. Dot Matrix Printer
2. Daisy Wheel Printer
3. Line Printer
4. Drum Printer
5. Chain Printer
6. Band Printer



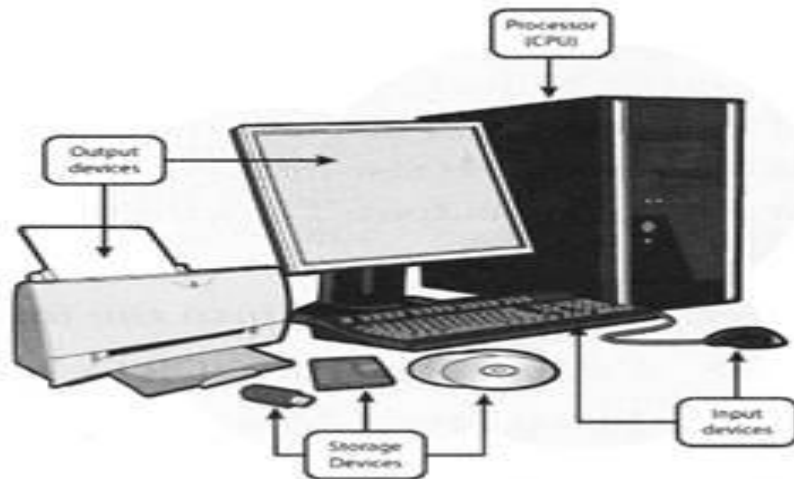
## Speaker

Speaker is one of the most common output devices. It is a device that converts analog audio signals into the equivalent air vibrations in order to make audible sound. They receive audio input from the computer's sound card and produce audio output in the form of sound waves.



## Input / Output Devices

In computing input/output or I/O refers to the communication between an information processing system (such as a computer) and the outside world. With the help of a dual-purpose device, we can enter data into the computer as well as we can output data from the computer. Good examples of an input/output device are a CD-ROM and DVD-ROM units and a hard disk drive.



### USB Flash Drive

USE Flash drive or thumb drive or pen drive is used when it is connected in the USB slot of the CPU Cabinet. These types of devices are used for data storage. USB Flash drive is available with different capacities.



### CD-ROM

You must have seen or used CDs for watching movies, playing games and listening to music. CD-ROM is an acronym of "Compact Disc Read-Only Memory". It is a type of optical disk capable of storing large amounts of data? up to 1GB, although the most common size is 700MB (Megabytes).





## Touch Sensitive Monitor

From the ancient period, human beings have been exploring and manipulating objects with their hands to sense the size, shape, texture and mass, etc. A Touch Sensitive Monitor is a pointing device that enables the user to interact with the computer by touching the screen. A touch screen is an electronic visual output that can detect the presence and location of a touch within the display area.



### Keywords

- **Input device** – An input device sends data to the computer. Ex. Mouse, Keyboard, Microphone.
- **Output device** – An output device shows the results of data that has been processed. Ex. Monitor, printer, speakers.

### • **CHECKPOINT**

**Rearrange the letters to get the names of some input devices.**

1. TOUCHSCREEN
2. TOUCHPAD
3. JOYSTICK
4. SCANNER
5. WEBCAM
6. MICROPHONE

## Exercise Corner

### A. Tick (✓) the correct answer.

- Which of the following is an input device?  
a. Plotter \_\_\_\_\_                      b. Touchpad ✓  
c. Printer \_\_\_\_\_                      d. Projector \_\_\_\_\_
- Which of the following is display screen?  
a. Touchscreen ✓                      b. Touchpad \_\_\_\_\_                      c. Projector \_\_\_\_\_                      d. Plotter \_\_\_\_\_
- Which of the following mostly used play games?  
a. Touchscreen \_\_\_\_\_                      b. Touchpad \_\_\_\_\_  
c. Joystick ✓                      d. Printer \_\_\_\_\_
- Which of the following is not an output device?  
a. Printer \_\_\_\_\_                      b. Scanner \_\_\_\_\_  
c. Speaker ✓                      d. Projector \_\_\_\_\_
- Which of the following device prints large maps and banners?  
a. Printer ✓                      b. Scanner \_\_\_\_\_  
c. Plotter \_\_\_\_\_                      d. Projector \_\_\_\_\_

### B. Write T for True or F for false.

- A keyboard is an output device T
- A touchpad is an input device found on laptops and some keyboards T
- A graphics tablet helps you to draw with a pencil F
- A scanner is used to input printed text or pictures into a computer T
- Many desktop computers and laptops have a built-in webcam T

### C. write one-word answers.

- You touch me with your fingers to give instructions. I am a Touchscreen.
- I am used to draw using a pen. I am a Graphic tablet
- I am the best quality printer. I am a Laser printer.
- I display text, images, and videos on a screen. I am a Webcam