

## Assignment-1

### 1. About input and output devices

#### Input device

A piece of equipment/hardware which help us enter data into a computer is called an input device.

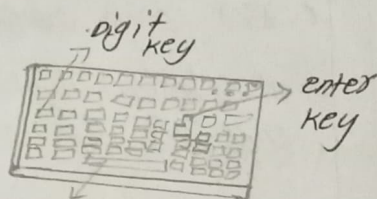
Ex: keyboard, mouse, scanner, Joystick, Barcode Reader, and web camera.

#### Key board:-

⇒ Input device for manual data entry also called as QWERTY key board.

⇒ The key board is the most frequently and speed widely used input device for entering data into a computer.

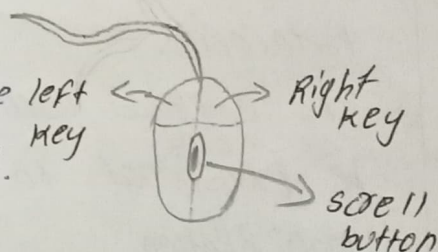
⇒ Although there are some additional keys for performing other operations, the key board layout is similar to that of a typical typewriter.



#### MOUSE:-

⇒ It is hand-held pointing device left key that locates & allows to control.

It is a locator.



⇒ The most common pointing device is the mouse.

⇒ The mouse is used to move a little cursor across the screen while clicking and dragging.

Signature



⇒ The left mouse button can be used to select or move items, while the right mouse button when clicked displays extra menus

### JoyStick:

- ⇒ It is a flight stick is an input device and pivots on base, angle and the direction.
- ⇒ A joystick is a pointing device that is used to move the cursor on a computer screen.
- ⇒ A spherical ball is attached to both the bottom and top ends of the stick.

### Scanner

- ⇒ Photography machine and transfer image.
- ⇒ Scanner can transfer typed text, graphics, diagrams and photograph to the computer.
- ⇒ A scanner is an input device that functions similarly to a photocopier.
- ⇒ It's employed when there's information on paper that needs to be transferred to the computer's hard disc for subsequent manipulation.
- ⇒ Before they are printed, these images can be modified.

### Output devices:

A piece of equipment which gives out the result of the entered input once it is processed. is called an output device. Eg: Printer, monitor.



## Monitor:

- ⇒ Monitor is also known as visual display unit (VDU).
- ⇒ It creates images by arranging small dots, known as pixels, in a rectangular pattern.
- ⇒ The amount of pixels determines the image sharpness.

**Cathode-Ray tube (CRT):** pixels are minuscule visual elements that make up a CRT display.

**Flat-Panel display cathode-Ray tube:-**

Flat panel displays are currently used in calculations, video games, monitors, laptop computers and graphical displays.

## Printer:

- ⇒ Printers are output devices that allow you to print information on paper.

## Line Printer:

- ⇒ Uses fan fold forms of papers rather than single sheet.
- ⇒ Used for large volume of data to be printed.

**Eg:** Pay roll marksheet.

**Dot matrix:** It works by impact 25 to 450 characters per seconds.

**Plotter:** Produces good quality drawing.

## 2. Description of Ram and its types.

**Ram: Read only memory:**

⇒ Memory is required in almost every computational device for making it operable and functional.

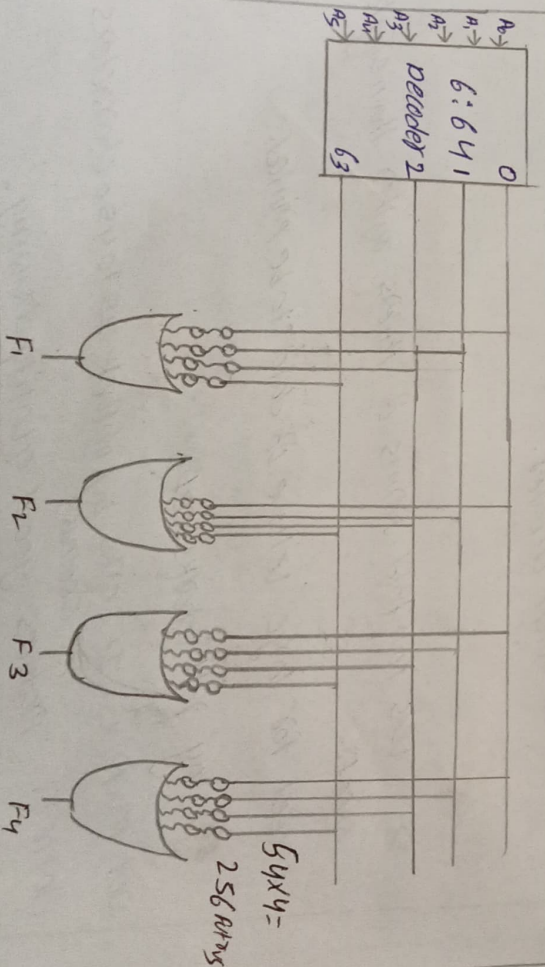
⇒ Ram is the kind of memory which stores data permanently.

⇒ It doesn't disappear after a user logs out of the system or if the system restarts.

⇒ This is possible because of non-volatile nature of Ram.

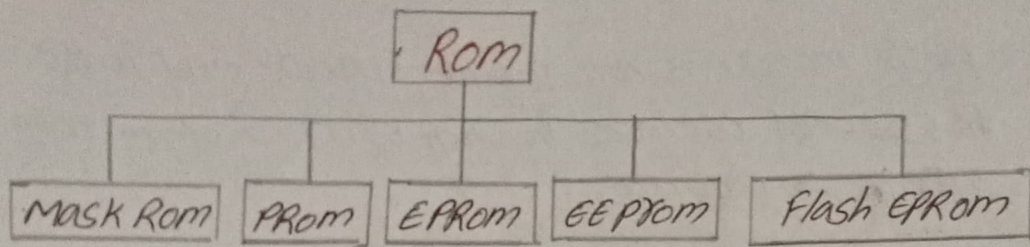
⇒ It is also referred to as secondary memory and is used as a storage medium in devices such as computers, mobile phones.

### Internal structure of Ram





## Types of Rom:-



### MRom:-

- ⇒ masked Read only memory (MRom)
- ⇒ It is a read only memory chip that is programmed during its manufacturing. MRoms cost relatively low.
- ⇒ MRoms were the first Roms to be developed and were hard wired, containing pre-programmed set of instructions.

### PROM:-

- ⇒ Programmable Read only memory
- ⇒ It's a device that includes both the OR planes as well as the AND plane within a single IC package

### EEPROM:-

- ⇒ Electrically Erasable Programmable Read only memory
- ⇒ It is non-volatile in nature and is used for storing small amounts of data in computer system.



## Flash memory:-

- ⇒ Flash memory is non-volatile in nature and is therefore has several use cases in which short to medium term data storage is required.
- ⇒ Flash memory technology implementations range from flash USB memory stick to camera memory cards like CF cards.