INPUT AND OUTPUT DEVICES
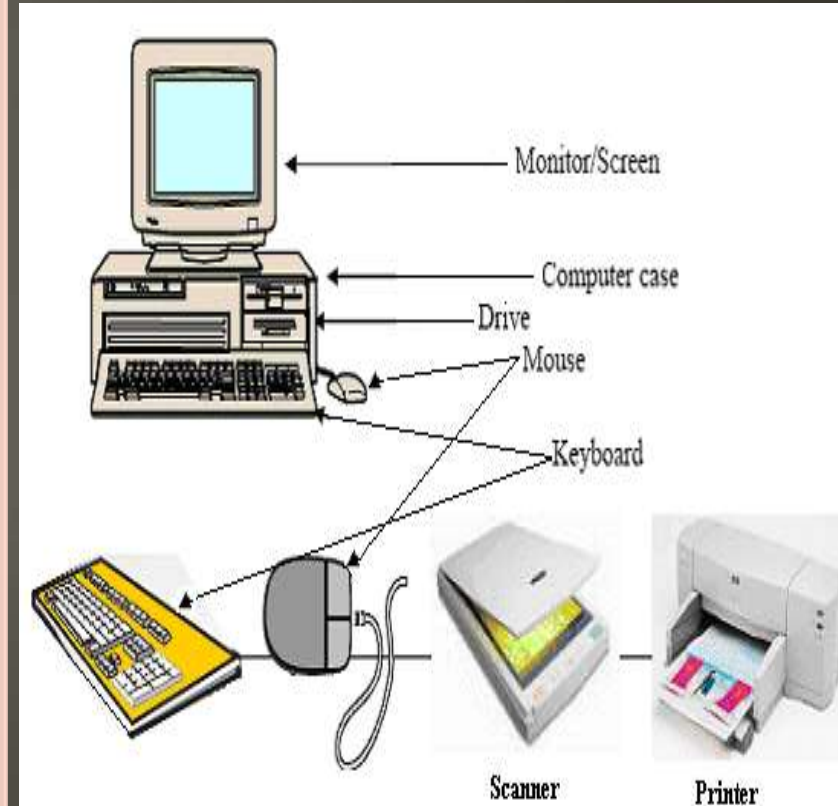
PREPARED BY :-

❑ HARSH

❑ MEHAR

❑ VISHAKHA

❑ ASTHA

❑ KALPANA

HOW??

- Do you ever wonder how information gets in your computer and how comes out in a form you can use? So, It is only possible with the help of <u>Devices.</u>

Monitor/Screen

Computer case

Drive

Mouse

Keyboard

Scanner

Printer

What is Device?

▶ It can be defined as the components or peripeharls which are attached to the computer to enter the data and get the desired result.

▶ Examples:-
Monitor,Keyboard,Mouse,Printer,etc.

TYPES OF DEVICES

INPUT DEVICES

OUTPUT DEVICES

INPUT DEVICES

It is an Electromechanical Device that can be used to enter data and instructions to the computer.
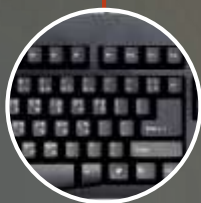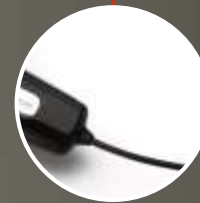
Input Devices

Pointing Devices

Keyboard

Optical Input Devices

Audio Input Device

Video Input Device
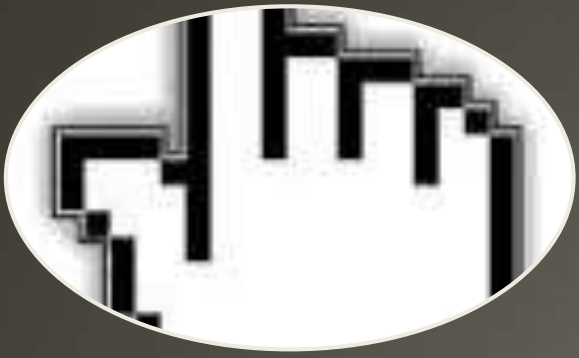
Pointing Devices
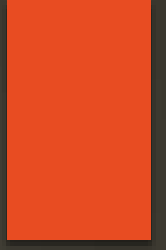
A pointing device, or sometimes called a pointing tool, is a hardware input device that allows the user to move the mouse cursor in a computer program or operating system.
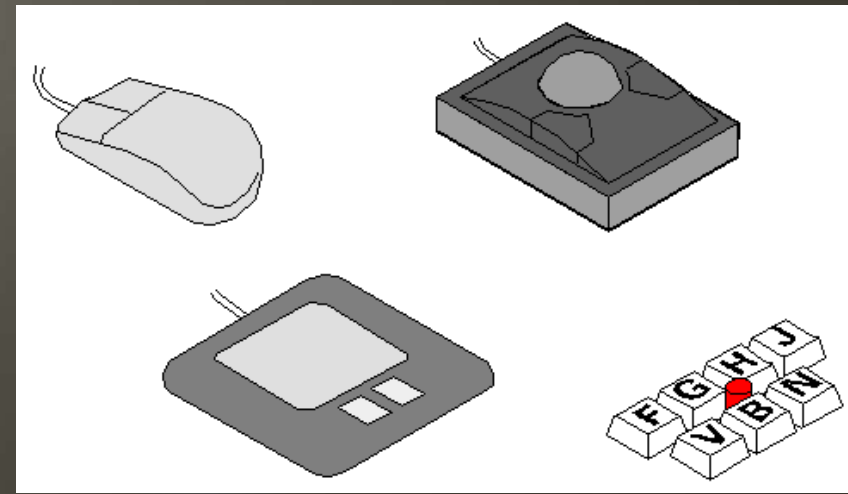
Types of Pointing Devices

- Mouse
- Joystick
- Touchpad.
- Light Pen

MOUSE

▶ Mouse Was Invented In during 1960's. By **Douglas Engalebart.**

▶ Mouse can be used to control and manipulate cursor movement on monitor

▶ Types Of Mouse

❑ Mechanical Mouse

❑ Optical Mouse

❑ Wireless Mouse

KEYBOARD

- Keyboard Was Invented By **Christopher Latham Sholes**

- A Keyboard is a human interface device which is represented as layout of button or keys.

- Features of keyboard:-

  1. Typewriter Keyboard with Numeric Keypad.
  2. Special Purpose Keys.
  3. Toggle And Combination Keys.

QWERTY
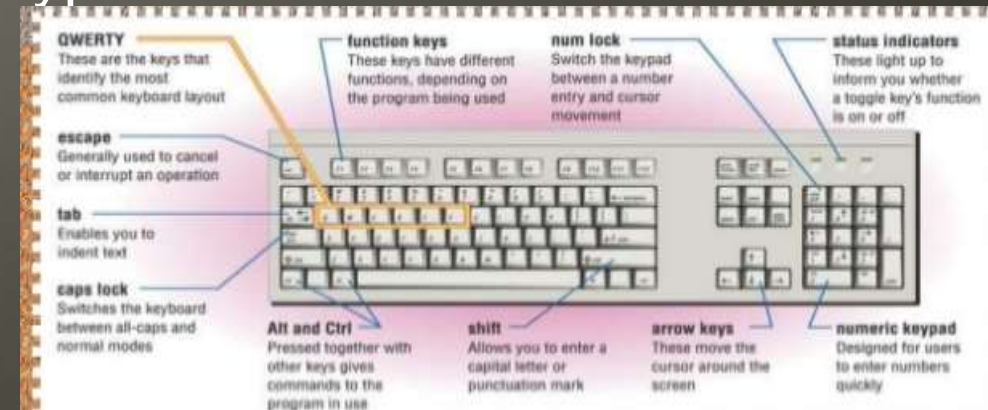These are the keys that identify the most common keyboard layout

function keys
These keys have different functions, depending on the program being used

num lock
Switch the keypad between a number entry and cursor movement

status indicators
These light up to inform you whether a toggle key's function is on or off

escape
Generally used to cancel or interrupt an operation

tab
Enables you to indent text

caps lock
Switches the keyboard between all-caps and normal modes

Alt and Ctrl
Pressed together with other keys gives commands to the program in use

shift
Allows you to enter a capital letter or punctuation mark

arrow keys
These move the cursor around the screen

numeric keypad
Designed for users to enter numbers quickly

Optical Devices

▶ Optical input devices that uses light as a source of input. They eliminate the need for manual entry of data, thus accuracy increases.

▶ Types of Optical Input Devices:

1. Scanner

2. Barcode Reader

Audio Input Devices

▶ Audio input devices records the analog sound and convert it into digital form for further processing.

▶ Types Of Audio Input Devices.

1. Voice Recognition

2. Microphone

3. Music Instrument

Video Input Devices

▶ Video Input Devices are used to entering full motion video recording into a computer.
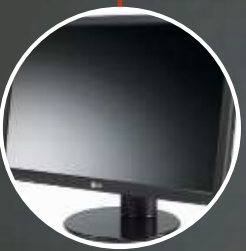
Output Devices

Output Devices are used to receive information from the computer either in Softcopy or Hard Copy.

Output Devices

Output Devices

Monitor
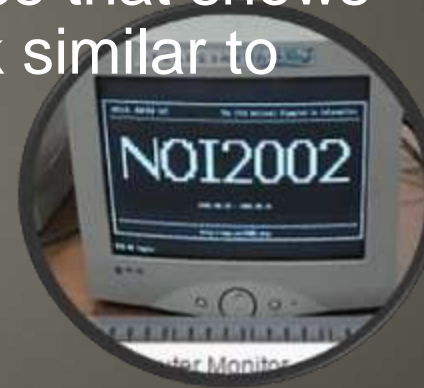
Printer

Audio Output

Projector

MONITOR

- Monitor was invented in 1897 By **Karl Ferdinand Braun.**

- A **computer monitor** or a **computer display** is an electronic visual display for computers.

- A **computer monitor** is an electronic device that shows pictures for computers. Monitors often look similar to televisions.

- There are three types of monitor:

  1. C.R.T Monitor
 2. L.C.D Monitor
  3. L.E.D Monitor

PRINTER

▶ Printer was invented by **Johannes Gutenberg**

▶ In computing, a **printer** is a peripheral which makes a persistent human-readable representation of graphics or text on paper or similar physical media

▶ Types Of Printer:-

1. **Impact Printer** :- An impact printer makes contact with the paper. It usually forms the print image by pressing an inked ribbon against the paper using a hammer or pins. Eg. Dot-Matrix , Daisy Wheel, Etc.

2. **Non-Impact Printer :-** Non-impact printers do not use a striking device to produce characters on the paper; and because these printers do not hammer against the paper they are much quieter. Eg. Inkjet , Laser, E

AUDIO OUTPUT DEVICE

► The term "Audio Output Device" refers to any device that attaches to a computer for the purpose of playing sound, such as music or speech. The term can also refer to a computer sound card.

► Types Of Audio Output Device:-
1. Speakers
2. HeadPhones
3. Sound Card
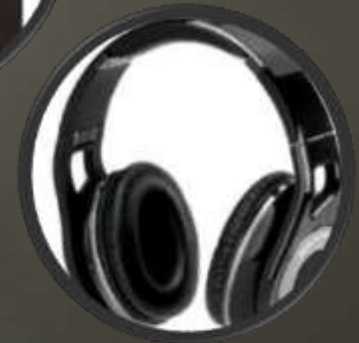
PROJECTOR

► Projector was invented by **Charles Francis Jenkins.**

► A **projector** or image **projector** is an optical device that projects an image (or moving images) on surface, commonly a **projection** screen.

CONCLUSION

1 Input and Output devices are indispensible components of a personal computer.

2 Act as a intermediary between the user and the machine in the process of communication.

3 Are the beginning and end of all processes, instructions executed in the machine.

4 without these devices, no operation can be effectuated.

Thank You!