

SNS COLLEGE OF ENGINEERING



Kurumbapalayam(Po), Coimbatore – 641 107
Accredited by NAAC-UGC with 'A' Grade
Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

Department of Information Technology

Course Name - COMPUTER GRAPHICS

III Year / V Semester

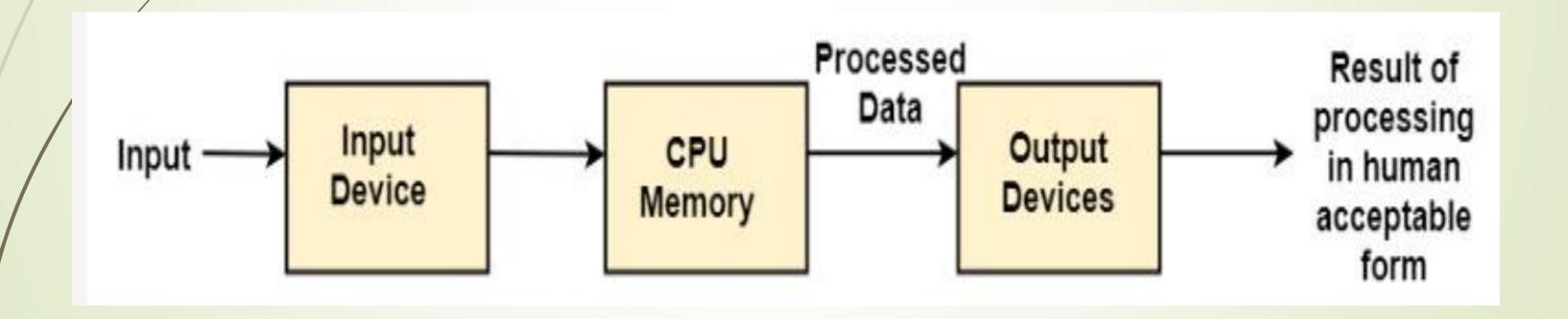
Unit 1 – INTRODUCTION TO COMPUTER GRAPHICS

Topic: Graphics Input Primitives and Devices

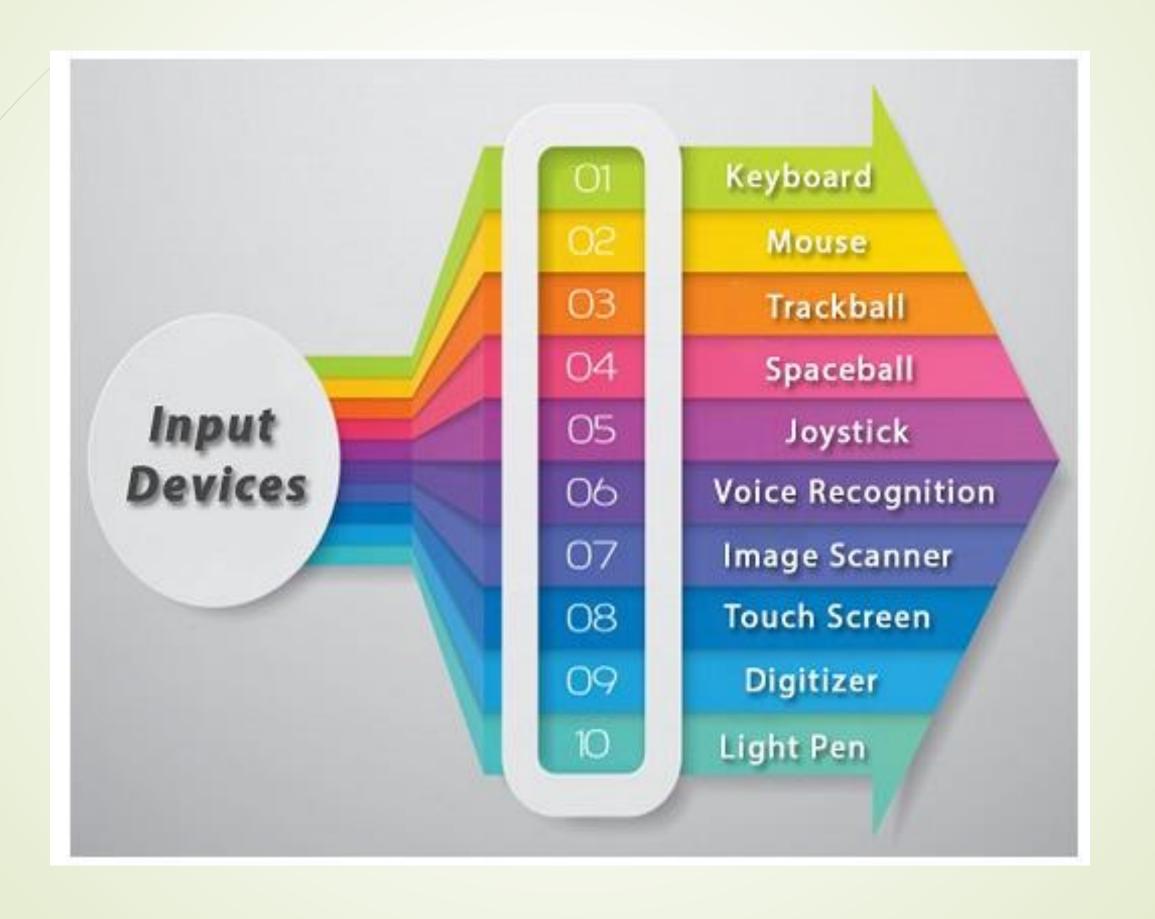


INPUT DEVICES

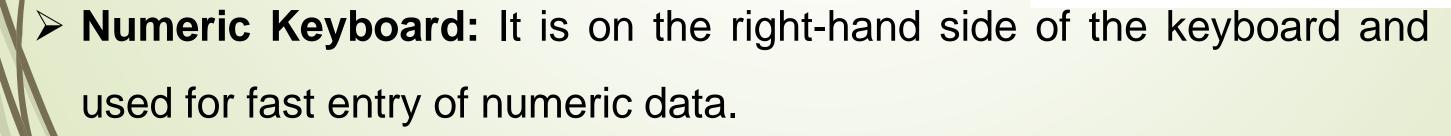
- The Input Devices are the hardware that is used to transfer input to the computer.
- The data can be in the form of text, graphics, sound, and text.



INPUT DEVICES



- ❖ The most commonly used input device is a keyboard. A keyboard with 101 keys is called a QWERTY keyboard.
- The keyboard has
- > Numeric Keys: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
- > Alphabetic keys: a to z (lower case), A to Z (upper case)
- > Special Control keys: Ctrl, Shift, Alt
- > Special Symbol Keys: ; , " ? @ ~ ? :
- **∀** Cursor Control Keys: ↑ → ← ↓
- Function Keys: F1 F2 F3....F9.





MOUSE

- Mouse is the most popular pointing device.
- ❖ A mouse can be used to control the position of the cursor on the screen, but it cannot be used to enter text into the computer.
- Functions of the mouse:
 - Clicking
 - Double Clicking
 - Right Clicking
 - Dragging
 - > Scrolling



TRACKBALL

- Track ball is an input device that is mostly used in notebook or laptop computer, instead of a mouse.
- It can move two directions.



SPACEBALL

- > A graphical input device that is based on a fixed spherical ball.
- > It is similar to trackball, but it can move in six directions
- > It is used for three-dimensional positioning of the object.
- It is applicable in CAD applications. Animation is also done using space ball.



JOYSTICK

- > Joystick is also a pointing device, which is used to move the cursor position on a monitor screen.
- The joystick can be changed in all four directions. The function of a joystick is similar to that of the mouse
- It is mainly used in Computer Aided Designing (CAD) and playing computer games.

DIGITIZERS

- A digitizer is a machine that converts an analog object, image or signal into a digital (i.e. computer-readable) format.
- Suitable only for applications which required high-resolution graphics.
- Digitizer is also known as Tablet or Graphics Tablet as it converts graphics and pictorial data into binary inputs



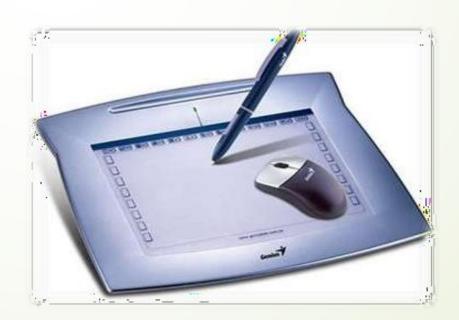


IMAGE SCANNERS

- An image scanner is a device that optically scans images, printed text, handwriting or an object and converts it to a digital image.
- There are three types of scanners available: drum scanner, flatbed, and handheld scanners





LIGHT PENS

Light pen is a pointing device similar to a pen. It is used to select a displayed menu item or draw pictures on the monitor screen.



TOUCH SCREEN

- > It is a computer display screen that is sensitive to human touch.
- A touch panel is a piece of equipment that lets users interact with a computer by touching the screen directly



VOICE SYSTEM

- Voice recognition(or voice system) is the ability of a machine or program to receive and interpret dictation or to understand and perform spoken commands.
- There are two variants of voice recognition speaker dependent and speaker independent



THANK YOU