

# PRACTICAL-4- STUDY ABOUT INPUT DEVICES

## Other Input Devices



Faculty of Engineering & Technology  
Department of Computer Engineering



# Introduction

- An input device is a piece of equipment used to provide data and control signals to an information processing system such as computer or information appliance.
- Examples of input devices include keyboards, mouse, scanners, joysticks, and microphones etc.

# Other Input Devices

- Joystick
- Light pen
- Scanner
- Digitizer
- Microphone
- MICR
- OCR
- Barcode Reader
- OMR

# Joystick

- Joystick is also a pointing device,
- Used to move the cursor position on a monitor screen.
- It is a stick having a spherical ball at its both lower and upper ends.
- The lower spherical ball moves in a socket.
- The joystick can be moved in all four directions.
- It is mainly used in Computer-Aided Designing and playing computer games.



Figure 1:  
Joystick

# Light Pen

- Similar to a pen.
- It is used to select a displayed menu item or draw pictures on the monitor screen.
- It consists of a photocell and an optical system placed in a small tube.



Figure 2: Light Pen

# Scanner

- Scanner is an input device,
- Works like a photocopy machine.
- It is used when some information is available on paper and it is to be transferred to the hard disk
- Scanner captures images from the source converted into a digital form that can be stored on the disk.



Figure 3: Scanner

# Digitizer

- Converts information into digital form.
- Digitizer can convert a signal from the television or camera into a series of numbers stored in a computer.
- They can be used by the computer to create a picture of whatever the camera had been pointed at.
- Digitizer is also known as Tablet or Graphics pen Tablet



Figure 4: Digitizer

# Microphone

- Microphone is an input device to input sound that is then stored in a digital form.
- The microphone is used for various applications such as adding sound to a multimedia presentation or mixing music.



Figure 5:  
Microphone



# MICR

- Magnetic Ink Card Reader
- MICR input device is generally used in banks
- The reading process is called Magnetic Ink Character Recognition.
- The main advantage of MICR is that it is fast and less error-prone.



Figure 6: MICR

# OCR

- Optical Character Reader
- OCR is an input device used to read a printed text.
- OCR scans the text optically, character by character, converts them into machine-readable code, and stores the text on the system memory.



Figure 7: OCR

# Barcode Reader

- Bar code reader is a device used for reading bar coded data.
- Bar coded data is generally used in labeling goods, numbering the books, etc.
- Bar code reader scans a bar code image, converts it into an alphanumeric value, which is then fed to the computer that the bar code reader is connected to.



Figure 8:  
Barcode Reader

# OMR

- Optical Mark Reader
- OMR is a special type of optical scanner used to recognize the type of mark made by pen or pencil.
- It is used where one out of a few alternatives is to be selected and marked.
- It is specially used for checking the answer sheets of examinations having multiple choice questions.



Figure 9: OMR

# Thank You