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# INPUT & OUTPUT DEVICES

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## GROUP 2

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Prepared by:

ASWINI A/P CHANDRASAGARAN (SX242452ECRHF01)  
UMI IZZATUL NATASHA BINTI MOHD FADZIL (SX240227ECJHS01)  
IZWAN AZIZ BIN ISMAIL @ ABD MALEK (SX241894ECJHF01)

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# DEFINITION

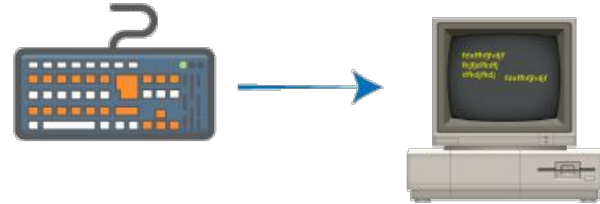
## Input

Input devices allow the user to **provide data** and **control signals** to the computer.

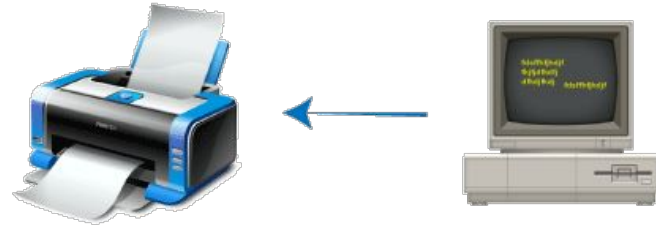
## Output

Output devices are used to **display, project, or physically reproduce** the results of the computer's processing.

### Input Example



### Output Example



# FUNCTION

## Input

To **capture data or user commands** and send them to the computer for processing.

## Output

To **receive processed data** from the computer and **present it in a human-perceivable form** (visual, audio, or printed).

# EXAMPLE INPUT DEVICES

1. Keyboard to capture textual & numerical input,
2. Mouse to capture motion and click-based input,
3. Microphones to capture sound waves,
4. Scanners to capture image data,
5. Virtual reality devices to capture our body movements.



# EXAMPLE OUTPUT DEVICES

## Projector

The projector display the information in the form of light and images that can be seen by the human eye.

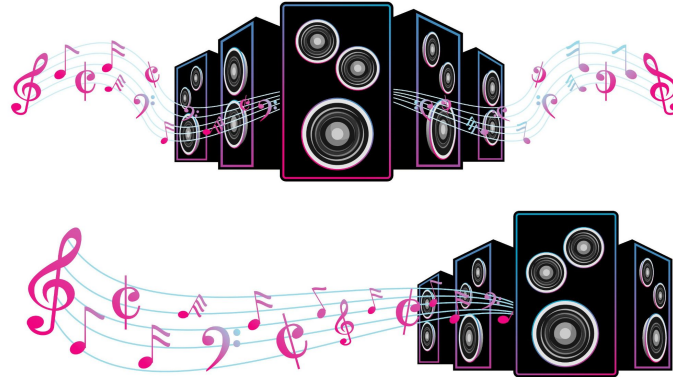
## Headphones

The headphones produced the sound and delivered it to the user's ears, allowing them to hear music, speech, or other audio content.

## Speakers

The speaker produced vibrations create sound waves, which travel through the air and reach the listener's ears, allowing them to hear the audio.

# EXAMPLE OUTPUT DEVICES



# HOW INPUT/OUTPUT DEVICES INTERACT WITH COMPUTER SYSTEM?

## Input Devices

- Input devices allow the user to send data or commands to the computer.
- Convert physical actions into a digital form that the computer can understand.
- The computer processes the input data to carry out the actions.

## Output Devices

- Output devices allow the computer to present processed data to the user.
- Convert the processed data into a form that can be perceived by the user.
- Output devices provide feedback to the user, allowing them to see, hear, or touch the results of the computer's processing.

# DEMONSTRATION ON ACTUAL DEVICES

BRAND & MODEL : VIVO Y31

PHYSICAL OVERVIEW :

- DISPLAY - HD+ DISPLAY  
(INPUT DEVICE: TOUCH SCREEN - TO INTERACT WITH THE PHONE)
- CAMERA - AI TRIPLE  
(INPUT DEVICE: TO CAPTURE PICTURES)
- SENSOR - FINGERPRINT  
(INPUT DEVICE: FOR SECURITY)

FEATURES:

- CAMERA - AI, VARIOUS MODES, FRONT CAMERA 16 MP  
(INPUT DEVICE: CAN BE CAPTURED PICTURES IN SMART ENHANCEMENT )
- BATTERY- 5000mAh, 18W FAST CHARGING  
(CAN BE DEFINED AS INPUT OR OUTPUT AS IT'S USAGE TO PROVIDES POWER TO OPERATE THE OTHER INPUT OUTPUT DEVICES)
- STORAGE & SPEED - 128GB STORAGE & 6GB RAM  
BOTH (AS DATA CAN BE WRITTEN AND STORED OR READ STORED DATA)
- SPEAKER  
(OUTPUT DEVICE: AS CAN BE HEARD AUDIO FORM MESSAGES, ALSO CALLS AND NOTIFICATIONS)

PERSONAL USE:

- DAILY TASKS; CHATS, BROWSING, SET REMINDERS, PRINTING





# QUIZZES

- 1) EXPLAIN THE FUNCTIONS OF INPUT AND OUTPUT DEVICES AND GIVE TWO EXAMPLES FOR EACH.
- 2) DESCRIBE HOW INPUT AND OUTPUT DEVICES INTERACT WITH A COMPUTER SYSTEM.