

## Introduction to Computers



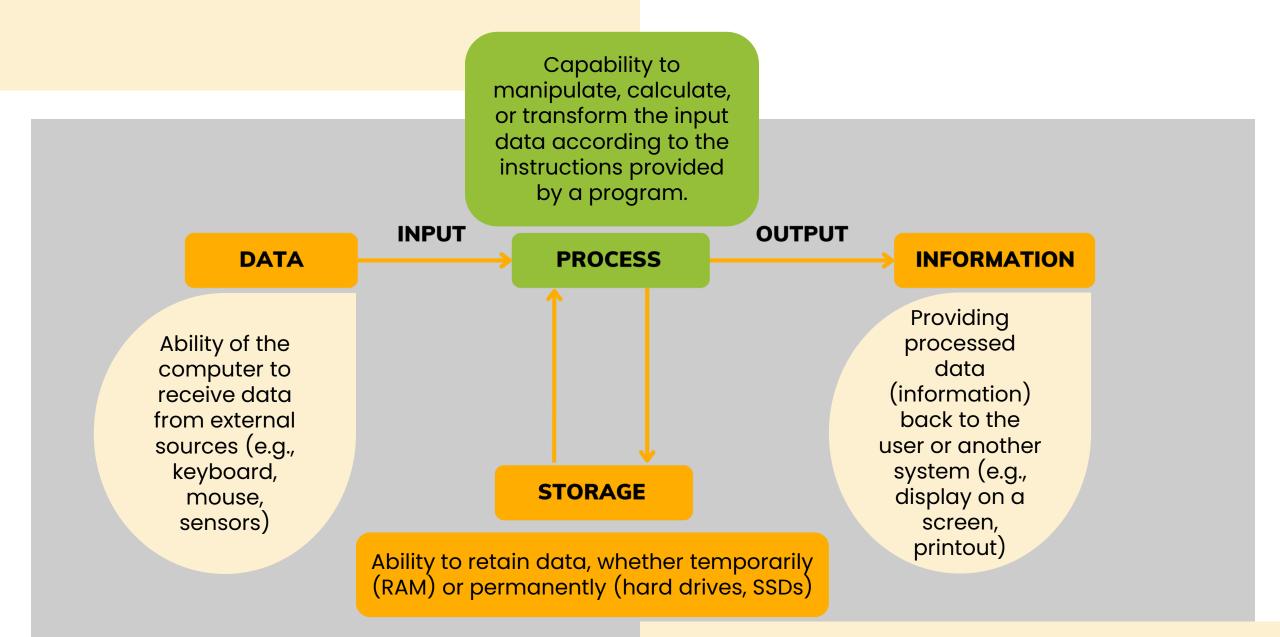
## introduction





#### What Is Computer?

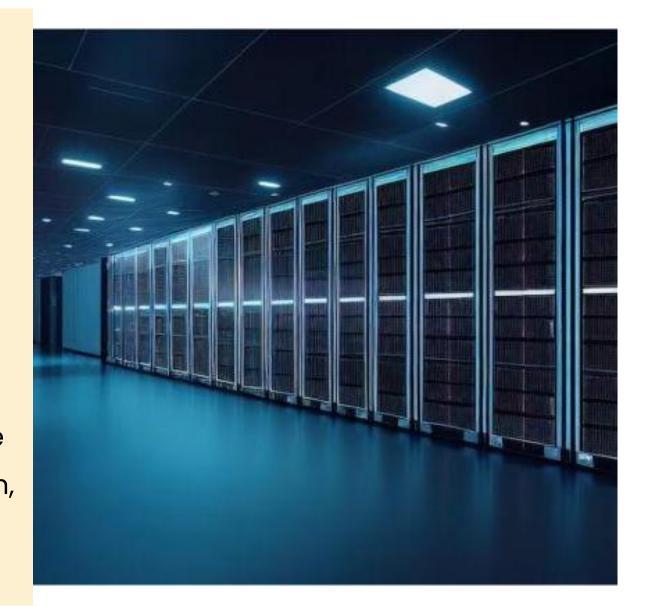
A computer is an electronic programmable device that accepts data input, processes data, stores it, and outputs information.



#### **Super Computers**

These are high intelligent specialized
computers designed to handle
sophisticated tasks in large plants.
They can handle large Volumes of
scientific computations.
Used in defence, Nuclear plants, climate
and weather stations, scientific research,

and large manufacturing plants.





#### Mainframe

Mainframes are powerful computers used for large data processing jobs. They are mainly used by government institutions and large companies for tasks such as census, industry and consumer statistics, enterprise resource planning, and financial transaction processing.

#### Mini Computers





Mini computers, also known as mid-range
computers, are smaller than mainframes
but more powerful than personal computers.
Used in manufacturing processes,
research laboratories, and small to
medium-sized businesses for specific
tasks.

#### Micro Computers

Microcomputers, commonly known as personal computers, are the most common type of computer designed for individual use.

Used for general-purpose
 tasks such as word
 processing, internet browsing,
 gaming, and personal
 productivity.



#### Basic Computer System

A computer system is an integrated set of hardware and software designed to perform data processing tasks.



It consists of **input**, **processing**, **storage**, and **output** components.

## **Input Devices**

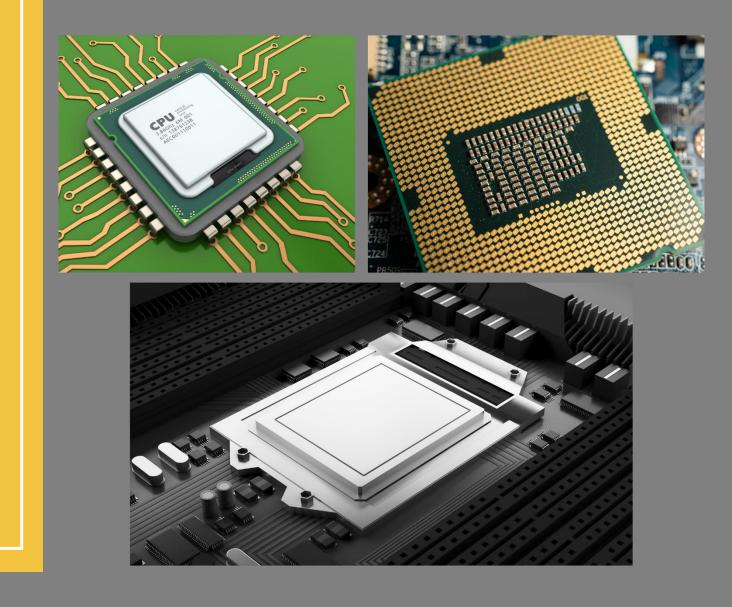
## Devices that are used to enter data into a computer.

Examples: Keyboard, touchscreen barcode reader, gamepad, microphone, digital camera, touchpad, mouse, scanner etc.



### Central Processing Unit (CPU)

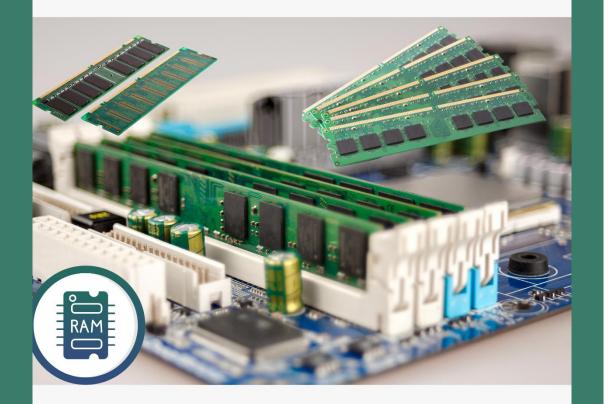
The CPU is the brain of the computer where data
processing takes place.
Control Unit (CU) and
Arithmetic Logic Unit (ALU).



#### Memory (RAM)

Random Access Memory (RAM) is
temporary storage that holds data
and instructions for the CPU.
Provides quick read and write
access to a storage medium that
the CPU can access directly.

Note: RAM is volatile; data is lost
when power is turned off



#### **Storage Devices**

- Devices that store data permanently. **Examples: Hard Disk Drive** (HDD), Solid State Drive (SSD), USB flash drives. Retain data and programs even when the computer is
- turned off.

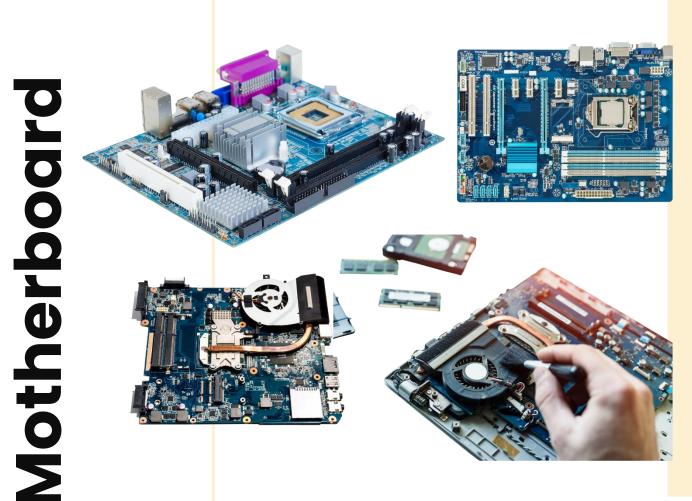


### **Output Devices**

Devices that receive data from the computer and present it to the user. Examples: Monitor, Earphones, Headsets, Speakers, Projectors, Printer etc.

Converts processed data into a human-readable form.





The main circuit board that connects all components of a computer.

**Components:** CPU, RAM slots, expansion slots, storage connectors, and various ports.

Allows communication between the CPU, memory and other hardware components.

## Power Supply Unit (PSU)

Converts electrical power from an outlet into a usable form for the computer.

Supplies power to all internal components of the computer



#### Cooling System

Keeps the computer components cool to prevent overheating.

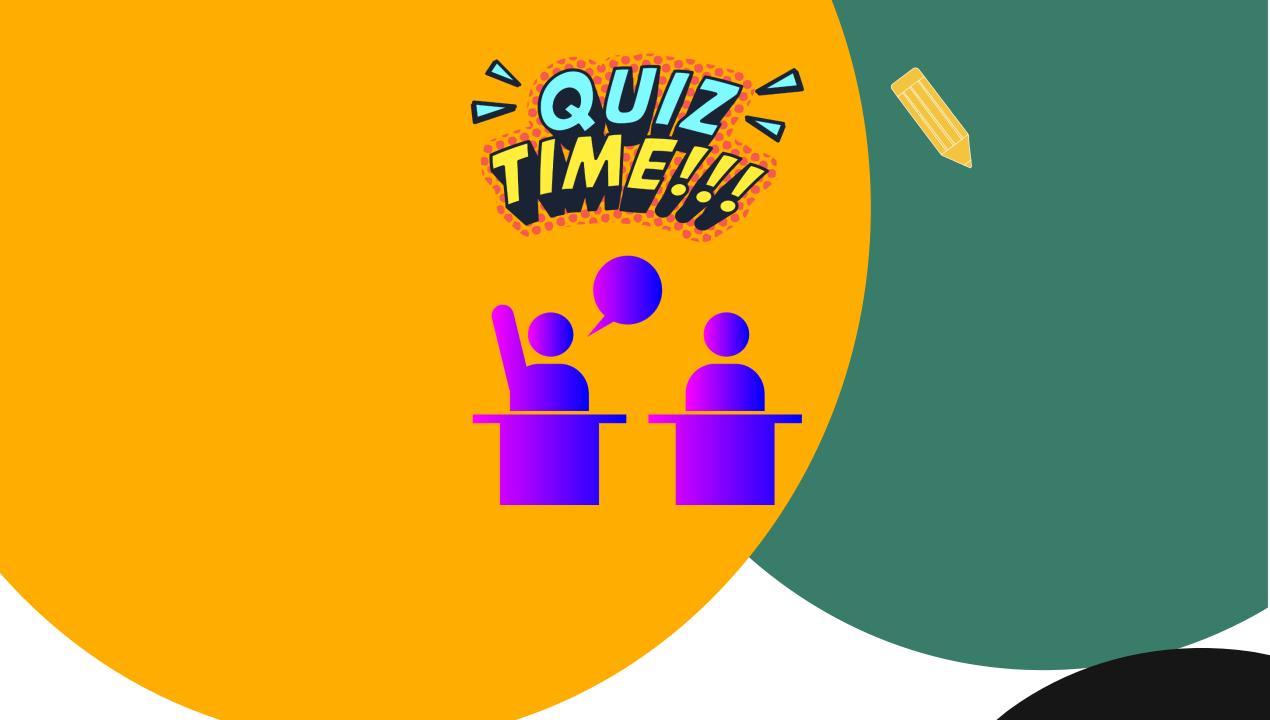
Components: Fans, heat sinks, liquid cooling systems.

 Function: Maintains optimal operating temperatures for the CPU, GPU, and other components.





## Questions and Answers



#### Input device or Output device?

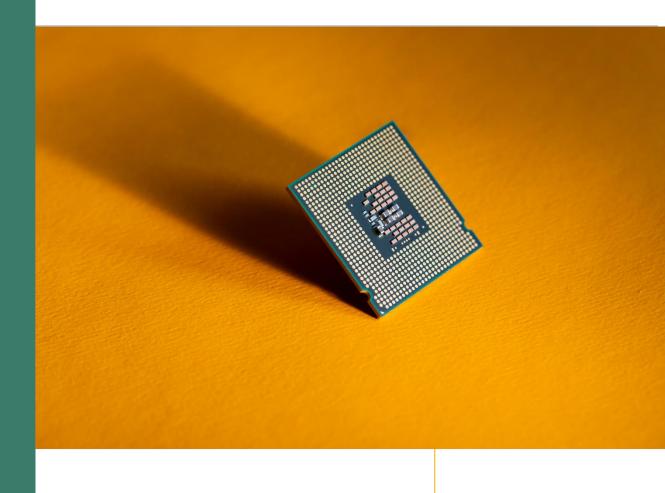


#### Input device or Output device?

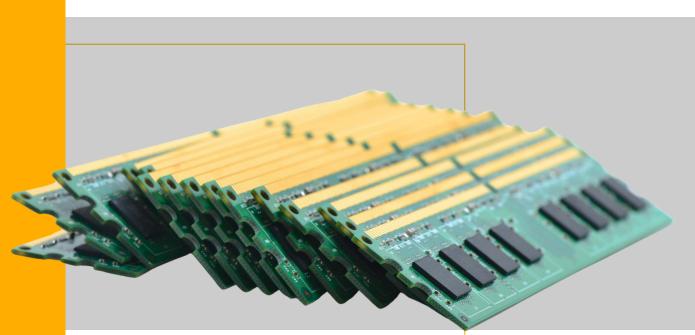


#### Used for?





Output device or Storage device?



## True or False

A barcode reader is an example of an output device.

# RAM is used for permanent data storage.

The motherboard is the main circuit board that connects all computer.

## The PSU converts electrical power from an outlet into a usable form for the computer.

# A scanner is an example of an input device.

## Thanks For Joining Us

