

## **Experiment No.: 1**

### **Aim**

Identify the major components of a computer system such as

- Motherboard
- RAM modules
- Daughter cards
- Bus slots
- SMPS
- Internal storage device
- Interfacing ports

### **Procedure**

#### **Mother board**

The motherboard serves as a single platform to connect all of the parts of a computer together. It connects the CPU, memory, hard drives, optical drives, video card, sound card, and other ports and expansion cards directly or via cables. It can be considered as the backbone of a computer



#### **RAM Modules**

Random-access memory is a form of computer memory that can be read and changed in any order, typically used to store working data and machine code. A random-access memory device allows data items to be read or written in almost the same amount of time irrespective of the physical location of data inside the memory.



### **Daughter cards**

It is a circuit board meant to be an extension or "daughter" of a motherboard, or occasionally of another card. In particular, daughterboards often have plugs, sockets, pins, connectors, or other attachments for other boards.



### **Bus slots**

Bus slot is a connection or port inside a computer on the motherboard or riser card. It provides an installation point for a hardware expansion card to be connected.



### **SMPS**

A switched-mode power supply is an electronic power supply that incorporates a switching regulator to convert electrical power efficiently.



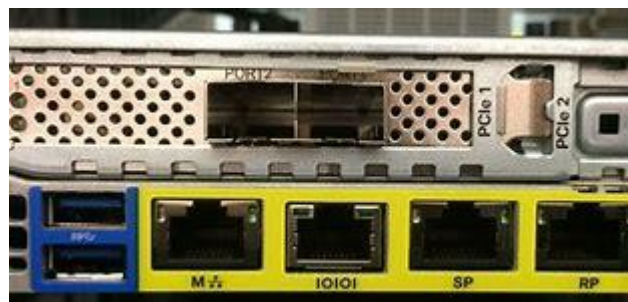
### **Internal storage device**

Internal storage device refers to the space available to keep system files, applications, and user files.



### **Interfacing ports**

A connection point that acts as interface between the computer and external devices like mouse, printer, modem, etc. is called interfacing ports.



**Experiment no 2:****Aim**

Prepare a comparison study of specifications of desktop and server class computers.

**Procedure****Desktop computer**

Memory : 8Gb to 16GB Ram

Operating System : Microsoft windows 10

Processor : 10<sup>th</sup> or 11<sup>th</sup> gen intel core processor.

Storage : 240GB solid state drive

Mouse : Built in.

Headphones : Headphones or earbuds

Monitor : widescreen flat panel display

**Server class computer**

4 Cores, 2.8-3.0 GHz each (2.8 GHz minimum speed)

Oracle Enterprise Linux 4 Update 7 or greater, 64-bit

Oracle JRockit JDK 28.1 64-Bit