PROGRAM NO:2

Physical identification of major components of a computer system such as Mother board,RAM modules,Daughter cards/Expansion cards,Bus slots,Internal storage device,Interfacing ports.

Motherboard:

The motherboard is defined as a circuit board for the computer system, also called logic board or mainboard. In the computer system, the biggest component is the motherboard that controls all the components of the computer system and establishes a link between all components. From the motherboard, different components like ROM, CPU, RAM, PCI slots, USB ports, and other components are connected. The computer system starts using the motherboard and these components act as the backbone for starting the system.

Components of motherboard:

1. Keyboard and mouse

2. Universal Serial Bus (USB)

3. Parallel port

4. CPU chip

5. RAM slots

6. Floppy Controller

7. IDE controller

8. PCI slot

9. ISA slot

10. CMOS Battery

11. AGP slot

12. CPU slot

13. Power supply slot

Types of Motherboard:

1. AT Motherboard

2. ATX Motherboard

3. LPX Motherboard

4. BTX Motherboard

5. Pico BTX motherboard

6. Mini ITX motherboard

RAM Modules:

There are two basic distinctions of memory. One is volatile memory where the data is lost as soon as power is removed, and one is non-volatile that can store the data without power. Random access memory (RAM) is used as read-write memory, which the processor can use as a scratch pad and modify rapidly.

Types of RAM modules:

•Static RAM (SRAM)

•Dynamic RAM (DRAM)

•Synchronous Dynamic RAM (SDRAM)

•Single Data Rate Synchronous Dynamic RAM (SDR SDRAM)

•Double Data Rate Synchronous Dynamic RAM (DDR SDRAM, DDR2, DDR3, DDR4)

Daughter cards:

The daughter card is a computer hardware. It is also known as the piggyback board, riser card, daughter board, daughter card. A daughter board is a printed circuit board which is connected to the motherboard or expansion card. As compared to the motherboard, it is smaller in size.

Types of daughter cards:

•MIDI

•Modem

•MPEG decoder

•Network card

•Sound card

•Tuner card

•Video capture card

•Video card

Bus slots/Expansion slots:

An expansion slot is a socket on the motherboard that is used to insert an expansion card (or circuit board), which provides additional features to a computer such as video, sound, advanced graphics, Ethernet or memory. The expansion card is plugged directly into the expansion port so that the motherboard has direct access to the hardware. However, since all computers have a limited number of expansion slots.

Types of Expansion slots:

•PCI Express–Video card

•AGP–Video card

•ISA–Network card, Sound card, Video card

•AMR–Modem, Sound card

•CNR–Modem, Network card, Sound card

•EISA–SCSI, Network card, Video card

•PCI–Network card, SCSI, Sound card, Video card