

## **NETWORKING & SYSTEM ADMINISTRATION LAB**

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### **Experiment No.: 1**

#### **Aim**

Familiarization of hardware components in a computer

#### **Procedure**

A Computer is an electronic device that has two essential parts including hardware and software to perform various operations. That means without hardware parts in a computer, software is of no work and vice versa.

Some of the components are:

#### **1. Central Processing Unit**

The central processing unit (CPU) is the computer component that's responsible for interpreting and executing most of the commands from the computer's other hardware and software.



#### **2. Mother board**

The motherboard is the piece of computer hardware that can be thought of as the "backbone" of the PC. The motherboard serves to connect all of the parts of a computer together. The CPU, memory, hard drives, and other ports and expansion cards all connect to the motherboard directly or via cables.



### 3. Random Access Memory

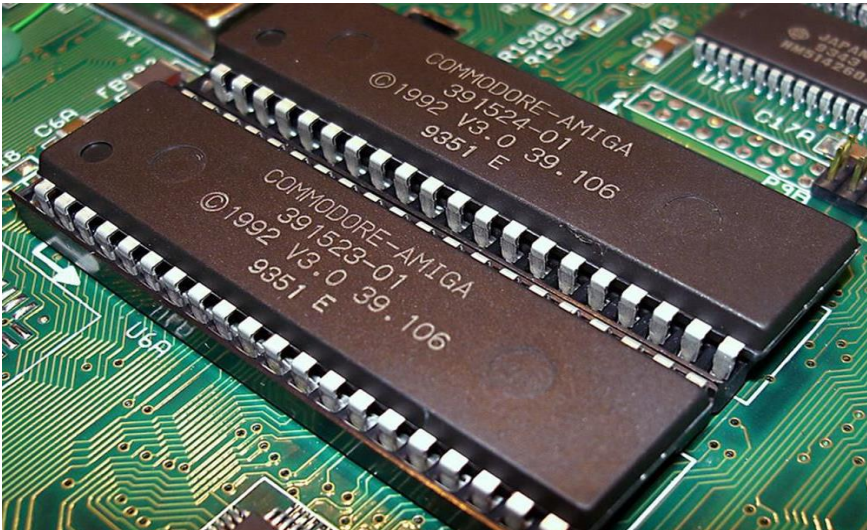
Random-access memory (RAM), which stores the code and data that are being actively accessed by the CPU. For example, when a web browser is opened on the computer it takes up memory; this is stored in the RAM until the web browser is closed. It is typically a type of dynamic RAM (DRAM), such as synchronous DRAM (SDRAM), where MOS memory chips store data on memory cells consisting of MOSFETs and MOS capacitors. RAM usually comes on dual in-line memory modules (DIMMs) in the sizes of 2GB, 4GB, and 8GB, but can be much larger.





#### 4. Read Only Memory

Read-only memory (ROM), which stores the BIOS that runs when the computer is powered on or otherwise begins execution, a process known as Bootstrapping, or "booting" or "booting up". The ROM is typically a nonvolatile BIOS memory chip, which stores data on floating-gate MOSFET memory cells.



#### 5. Network Interface card

A network interface card (NIC) is a hardware component without which a computer cannot be connected over a network. It is a circuit board installed in a computer that provides a dedicated network connection to the computer. It is also called network interface controller, network adapter or LAN adapter.



## 6.Hard Disk Drive

A computer hard disk drive (HDD) is a non-volatile data storage device. Non-volatile refers to storage devices that maintain stored data when turned off. All computers need a storage device, and HDDs are just one example of a type of storage device.



## 7.Power Supply Unit

A power supply unit (PSU) converts mains AC to low-voltage regulated DC power for the internal components of a computer. Modern personal computers universally use switched-mode power supplies. Some power supplies have a manual switch for selecting input voltage, while others automatically adapt to the mains voltage.



## 8. keyboard

The keyboard is the piece of computer hardware used to input text, characters, and other commands into a computer or similar device. Even though the keyboard is an external peripheral device in a desktop system (it sits outside the main computer housing), or is "virtual" in a tablet PC, it is an essential part of the complete computer system. Microsoft and Logitech are some of the most popular physical keyboard manufacturers, but many other hardware makers also produce them.



## 9. Monitor

A monitor is a piece of computer hardware that displays the video and graphics information generated by a connected computer through the computer's video card. Monitors are similar to TVs but usually display information at a much higher resolution. A monitor is sometimes referred to as a screen, display, video display, video display terminal, video display unit, or video screen.



## 10.Optical Drive

An optical drive is an internal or external computer disk drive that uses laser beam technology to read and write data. Optical disk drives are associated with compact discs, DVD and BLUERAY technology. Like the of the last century, ODDs have fallen out of fashion and are no longer included as a default component of new desktop and laptop computers.

