Module 2 CS- Fundamental of Operating Systems & Networks

1. Difference between hardware and software.

Ans: Computer hardware is the physical parts of a computer.

Software is a collection of instructions, data, or computer programs that are used to run machines and carry out particular activities.

1. Define IP address range and private address range.

Ans: 0 to 255

Class A private ip address range = 10.0.0.0 to 10.255.255.255

Class B private ip address range = 176.16.0.0 to 176.31.255.255

Class C private ip address range = 192.168.0.0 to 192.168.255.255

1. Explain Network protocol and Port number.

Ans: Network protocols are a set of rules that are responsible for the communication of data between various devices in the network.

Port number is the part of the addressing information used to identify the senders and receivers of messages in computer networking.

1. Explain Types of Network Devices

Ans: This types of Network Devices:

Access Point

Modems

Firewalls

Repeater

Hub

Bridge

Switch

Routers

Gateway

Router

1. Which Tools use for Data Backup and Recovery

Ans: Live boot

1. Explain HTTP and HTTPS Protocols

Ans: Http website have not secure certificate.

Https website have secure certificate.

1. What is SSL and TLS Security?

Ans: Done.

1. Explain the MAC ADDRESS

Ans: MAC Addresses are unique 48-bit hardware numbers of a computer that are embedded into a network during manufacturing.