DAY 1

NETWORK

- CONNECTION BETWEEN THE SYSTEM FOR THE PURPOSE OF COMMUNICATION AND SHARING RESOURCES LIKE DATA AND DEVICES (like printer,scanners) etc

Types of Network

- LAN (LOCAL AREA NETWORK)

  computer network that interconnects computers within a limited area such as   a residence, school,offices etc

- MAN (METROPOLITAN AREA NETWORK)

- computer network that connects computers within a metropolitan area, which could be a single large city, multiple cities and towns,

- A MAN is larger than a local area network (LAN) but smaller than a wide area network (WAN).

WAN (WIDE AREA NETWORK)

- collection of LAN OR other network that communicate with one another

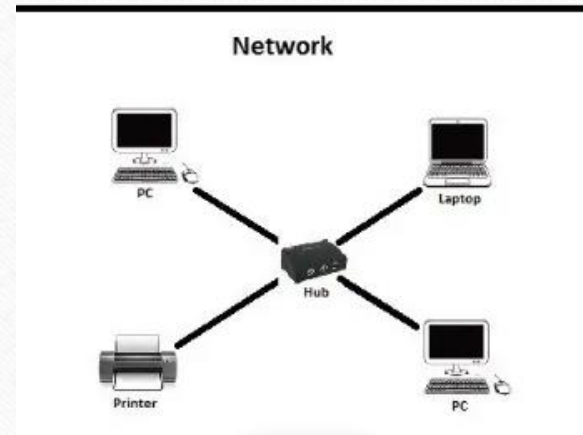It is also called as Network of Networks

NETWORK DEVICES

- HUB
- SWITCH
- ROUTER

HUB

- HUB IS A LAYER1 DEVICE

- IT WILL BROADCAST MESSEGES

- IT IS DUMP DEVICE

PHYSICAL

UNICAST
MULTICAST
BROADCAST

IT IS LIKE EXTENSION BOARD

SWITCH

- LAYER2 DEVICE   DATA LINK LAYER

- IT CONNECTS 2 OR MORE COMPUTERS

- ALSO CALLED AS INTELLIGNET DEVICE

- SWITCH CAN DECIDE WHICH COMPUTER IS THE MESSAGE INTENDED FOR AND SEND MESSAGE DIRECTCLY TO RIGHT COMPUTER

- IT WILL UNICAST MESSGES INSTEAD OF BRAODCASTING

ROUTER

- A router is a device that connects two or more networks or subnetworks.

- LAYER3 device   NETWORK

- Calculate best route sending packets from source to destination

IP ADDRESS

- IP STANDS FOR INTERNET PROTOCOL

- IT IS A LOGICAL ADDRESS

- a unique address that identifies a device on the internet or a local network

- ASSIGNED BY ISP   INTERNET SERVICES PROVIDER

IP ADDRESS TYPES

- PUBLIC IP ADDRESS
- PRIVATE IP ADDRESS

PRIVATE IP

- IT IS NON ROUTABLE IP

- IT IS FREE OF COST

PRIVATE IP RANGES

Class A: 10.0. 0.0 — 10.255. 255.255.
Class B: 172.16. 0.0 — 172.31. 255.255.
Class C: 192.168. 0.0 — 192.168. 255.255.

PUBLIC IP

- IT IS ROUTABLE IP'S

- IT IS PAYABLE

CLASSES OF PUBLIC IP

Class	1st octet of IP address
A	1 - 126
B	128 - 191
C	192 - 223
D	224 - 239
E	240 - 254

ASSIGNMENT

- ADVANTAGES AND DISADVANTAGES OF

LAN

WAN

MAN

- DIFFRENCE BETWEEN PRIVATE AND PUBLIC IP
- HOW TO CHECK THE IP ADDRESS OF SYSTEM

   (try to check your system ip)

THANK YOU