Computer Networks

• Course Code: BCSE308L

• *Course Type*: Theory (ETH)

• *Slot*: D1+TD1

• *Class ID*: VL2023240100820

• Timings:

Day	Start	End
Monday	10:00	10:50
Thursday	08:00	08:50
Friday	12:00	12:50

Network

- A network is a set of devices (often referred to as nodes) connected by communication links.
- A node can be a computer, printer, or any other device capable of sending and/or receiving data generated by other nodes on the network.
- A link can be a cable, air, optical fiber, or any medium which can transport a signal carrying information.

A network consists of two or more nodes that are linked in order to share resources (such as printers and CDs), exchange files, or allow electronic communications.

The computers on a network may be linked through cables, telephone lines, radio waves, satellites, or infrared light beams.

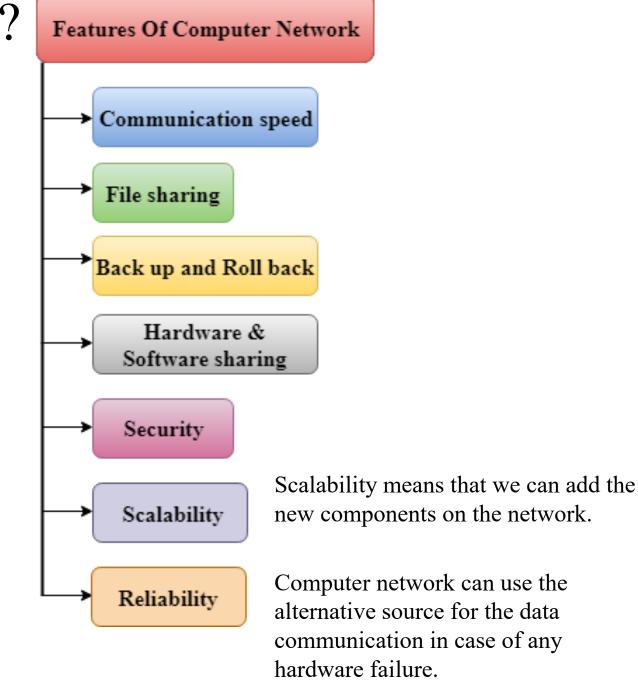
Why Networks are Required?

They provide numerous advantages, such as:

- Resource sharing
- Exchange and sharing of information
- Interactions between people
- Parallel Computing

Most people know about the Internet (a computer network) through applications, such as:

- World Wide Web
- Email
- Online Social Network
- Streaming Audio Video
- File Sharing
- Instant Messaging



Why Networks are Required?

Resources Sharing:

Hardware (Computing resources, disks, printers), Software (Application software)

Information Sharing:

Easy accessibility from anywhere (Files, databases), Search Capability(WWW).

Communication:

Email, Message broadcast.

Remote computing:

Remote access is the ability to access a system or network, whether it's a personal device or office server, without being physically present.

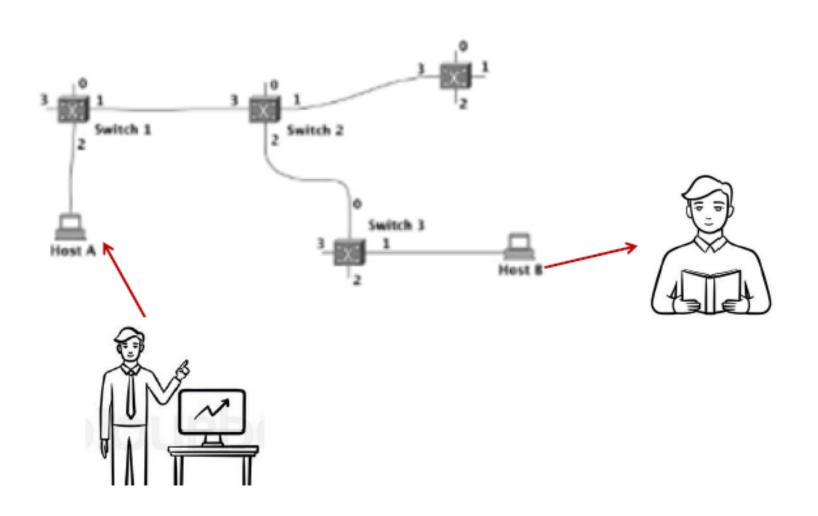
Distributed processing:

Is a setup in which multiple individual central processing units (CPU) work on the same programs, functions or systems to provide more capability for a computer or other device.

Applications

- Email
- Searchable Data(Web Sites)
- E-Commerce
- News Groups
- Internet Telephone (VoIP)
- Video Conferencing.
- Chat groups
- Instant Messages

We are using Teams to conduct this lecture session



Any Questign

