

# THE FUTURE TRACK

## COMPUTER EDUCATION

# NETWORKING



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### Networking

Computer network is used to data communication sending and receiving form one terminals to any other terminals.

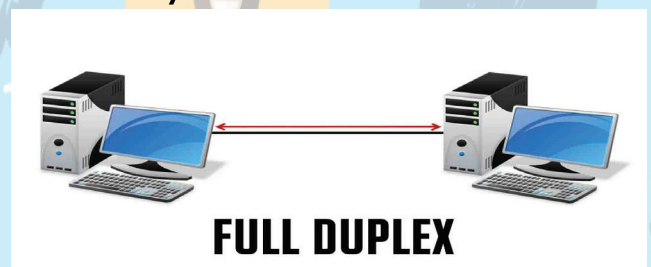
### There are three types of transmission channels

1. Simplex
2. Half duplex
3. Full duplex
4. A(sender) à B(receiver) : is the simplex channel, where data transmission is in one way direction. Here the receiver can not send any communication back to the sender via the same channel
5. Half duplex

Half-duplex mode: In half duplex mode, Sender can send the data and also can receive the data but one at a time. It is two-way directional communication but one at a time

### Full duplex mode:

In full duplex mode, Sender can send the data and also can receive the data simultaneously. It is two-way directional communication simultaneously.



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### Topology

Topology is used to arrangement of various components of a network Such as server, hubs , nodes, link and information .

### Star Network

There is a 'Central Node', which is also called the 'Hub'. For your easy understanding, think of hub as a Server and the other nodes attached to it are the client nodes.

### Ring Network

Topology, each node is connected to two other nodes only. The data flow is usually one way in a ring network, and hence if any line/node fails then the entire network crumbles.

### Bus Network

Bus Networking is the type of topology in which the nodes are connected by a single communication line. This single communication line is called a bus.

### Network Terminals

Terminal is a computer network means a computer equipment, it could be anything – a computer, an ATM machine, the PNR and Train time requesting machines at railway stations.

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### Dumb terminals

Dumb terminals are those terminals which can't do any processing to storage of data.



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