

Half-Duplex Mode

Elementrix Classes

Half-Duplex Mode

- ❑ In a Half-duplex channel, direction can be reversed, i.e., the station can transmit and receive the data as well.
- ❑ Messages flow in both the directions, but not at the same time.
- ❑ The entire bandwidth of the communication channel is utilized in one direction at a time.

- ❑ In half-duplex mode, it is possible to perform the error detection, and if any error occurs, then the receiver requests the sender to retransmit the data.
- ❑ A Walkie-talkie is an example of the Half-duplex mode.
- ❑ In Walkie-talkie, one party speaks, and another party listens. After a pause, the other speaks and first party listens. Speaking simultaneously will create the distorted sound which cannot be understood.



Workstation

Direction of data at time 1



Direction of data at time 2



Workstation

Advantage of Half-duplex mode:

- ❑ In half-duplex mode, both the devices can send and receive the data and also can utilize the entire bandwidth of the communication channel during the transmission of data.

Disadvantage of Half-Duplex mode:

- ❑ In half-duplex mode, when one device is sending the data, then another has to wait, this causes the delay in sending the data at the right time.

पढ़िए और पढ़ाइये

SUBSCRIBE, SHARE, COMMENT