

### Why acknowledged service is better?

- When data is sent acknowledgement at reception of data occurs.
- If frame is lost, then error is detected and the data is sent again.
- Recovery of data takes place easily.
- It works for reliable channels where error is minimum.
- This is a time saving method and better than unacknowledged service .

### What are the problems in Character count framing method.

- In character count the header gives number of characters in frame.
- E.g. 2,3,4,2,5,7, 0,4
- Initially two frames will be sent as header shows 2 i.e. 3 and 4.
- Again 2 frames will be sent shown by next header and frames are 5 and 7.
- 3rd Header is 0 which lead to wastage of time and bandwidth and no frame is sent.
- This leads to error and should be avoided.

### Explain Echoplex

- It is a method used to detect error in data link layer and is also called echo checking.
- Here receiver retransmits the data back to the transmitter after reception.
- It requires a full duplex operation for sending and receiving data.
- When data is received at the transmitter, error can be detected by the human operator .
- Its disadvantage is that it depends on humans for error detection and correction.