CS & IT ENGINEERING





Lecture No 05



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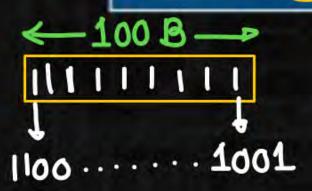


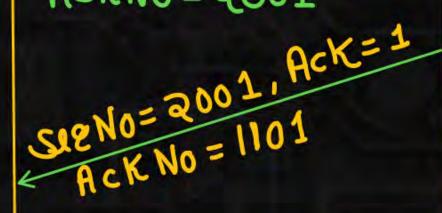


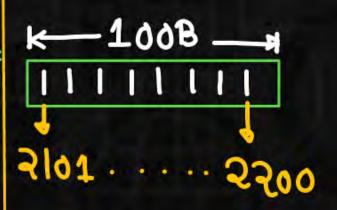
State transition Diagram

Data Transfer Phase







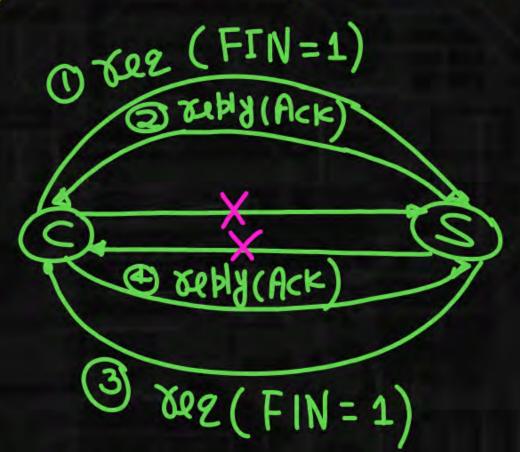


Pure Ack

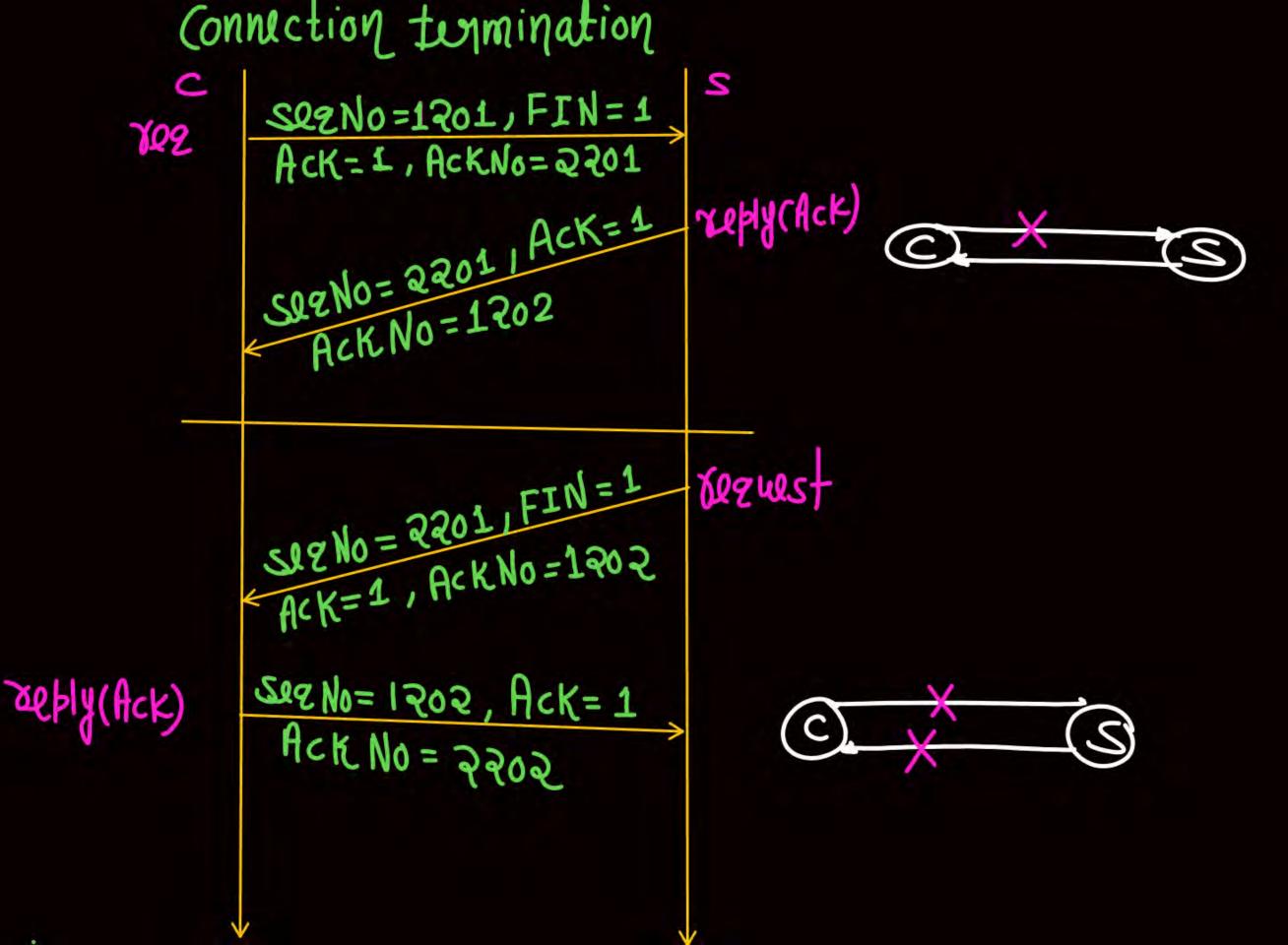
Connection Termination Phase



· FIN Flag is used in the connection termination Phase



Connection termination is a 4 way Handshaking





Note:-

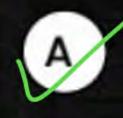
FIN segment cannot carry data but it consume one sequence number.

Q.1



Gate 2021 (am)

Consider the three-way handshake mechanism followed during TCP connection establishment between hosts P and Q. Let X and Y be two random 32-bit starting sequence numbers chosen by P and Q respectively. Suppose P sends a TCP connection request message to Q with a TCP segment having SYN bit = 1, SEQ number = X, and ACK bit = 0. Suppose Q accepts the connection request. Which one of the following choices represents the information present in the TCP segment header that is sent by Q to P?



SYN bit = 1, SEQ number = Y, ACK bit = 1, ACK number = X+1, FIN bit = 0



SYN bit = 0, SEQ number = X+1, ACK bit = 0, ACK number = Y, FIN bit = 1



SYN bit = 1, SEQ number = X+1, ACK bit = 0, ACK number = Y, FIN bit = 0



SYN bit = 1, SEQ number = Y, ACK bit = 1, ACK number = X, FIN bit = 0

G regust SeeNo=X, SYN=1, AcK=0 SeeNO=Y, SYN=1 Ack=1
AckNo=X+1, FIN=0
AckNo=X+1, FIN=0 reply



