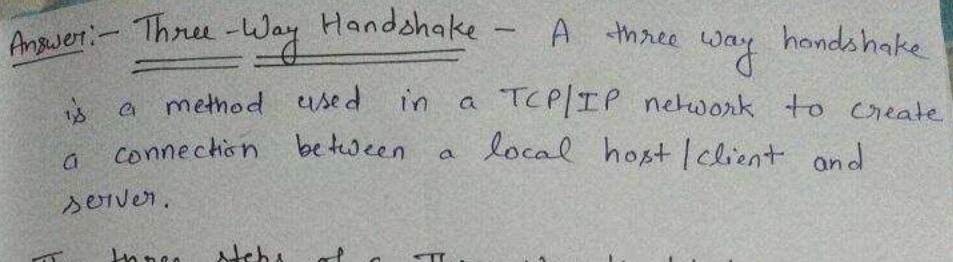
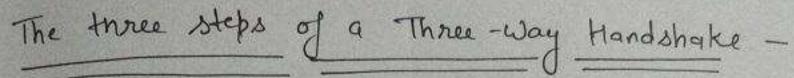
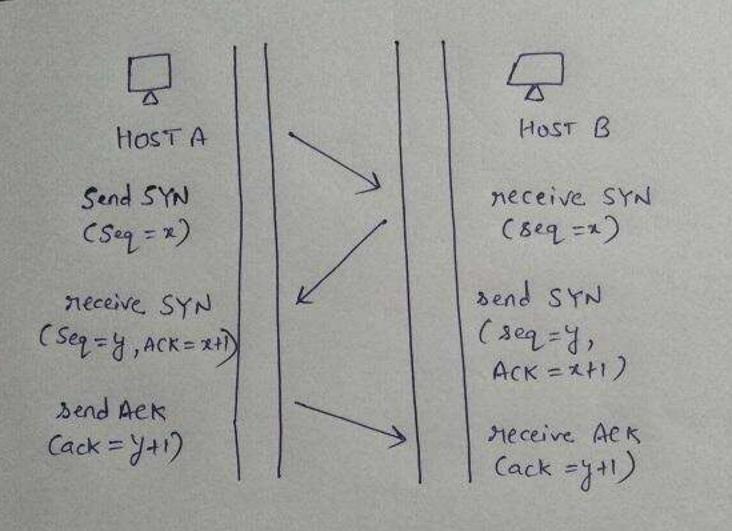
## Answer

## Solution:

Please find the solution of the above question given below-





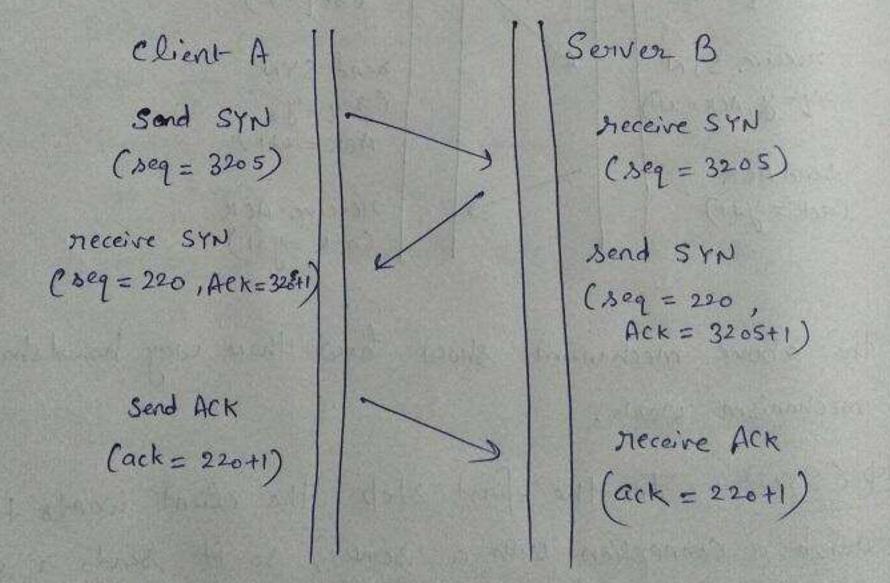


The above mechanism show how three way handshake mechanism work.

Step1 (SYN) - In the first step, the client wants to Establish a Connection with a server, so it sends a segment With SYN (Synchronize Sequence Number) which informs the server that the client is likely to start communication Solution 1:and with what sequence number it starts segments with.

Step 2 (SYN + ACK) - Server nesponds to the client Trequest with SYN-ACK signal. but set Acknowledgement (ACK) signifies the nesponse of the segment it received and SYN signifies with what sequence number it is likely to start the segments

Step3 (ACK) - In the final part client acknowledges the response of the sorver and they both establish a reliable Connection with which they will start the actual data transfer.



Sequence number of the HTTP GIET request segment from client A = 3206

Acknowledge number of the HTTP GIET request segment from dient A = 221

Given window size of client A = 496 bytes Window size of server B = 280 bytes

Client A sends the HTTP GIET request of the size 120 byks Server B answered with 2 segments containing the nequested data.

The size of first segment is = 75 bytes. The size of second segment is = 45 bytes.

the window size of the second acknowledge segment sent by client A is = 90 bytes Ans.