Write a TCP server and a client for the following.

- 1. The Server as a command line argument accepts the port number to which it should bind. (1 mark)
- 2. The client, as command line arguments, accepts the IP address and the port number at which it will find the server.(1 mark) Start 3 separate instances of the client at this step.
- 3. After connecting to the server, each client reads a line from the standard input and sends it to the server. (1 mark)
- 4. The server prints the received line in reverser order along with IP address and port number from which it received the message (2 marks). The server then reads a line from standard input and sends it to all the clients. (1 mark)
- 5. The client prints the received line in reverse order and are ready to accept a new line from the user. (2 marks)
- 6. The client exits if the user types "exit". (1 mark)
- 7. The server at a time accepts utmost 4 clients. Any client above the limits is rejected (4 marks). And when the number is less than the limit then the server accepts the new client (2 marks). Show this with 6 instances of client.

Properly comment your code (1 mark)

Provide screenshots of all client and server instances in step 1 to 7. (1 mark)