REPORT

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Question 1

1. The server is given a range of IP's in the subnet 10.1.34.*.
2. The server broadcasts a message "Broadcast message" to all the IPs.
3. Use socat - udp-recv:8890 in the system present in the above mentioned range of IPs to see the broadcasted message.
4. The message is broadcasted after every 5 seconds.

Question 2

1. We created a program which consists of both server and a client i.e it can send and receive messages.
2. This is essentially a peer to peer messaging application.
3. Run the program on two different machines and say one machine is Client1 and the other machine is Client2.
4. Now enter the IP and PORT of Client1 in Client2 and vice versa.
5. Two threads start running as the program starts, one thread for receiving messages and one for sending messages.
6. To exit from the chatting program enter "quit" and press Enter.

Question 3

1. The server can handle multiple clients at the same time.
2. Each time a client connects to the server a new port is opened.
3. A maximum of 30 clients can connect to the server simultaneously.
4. If a client sends a string the server reverses the string and sends it back to the specific client.
5. Run the server on a machine.
6. Use the command "telnet serverIP PORT" to connect to the server.