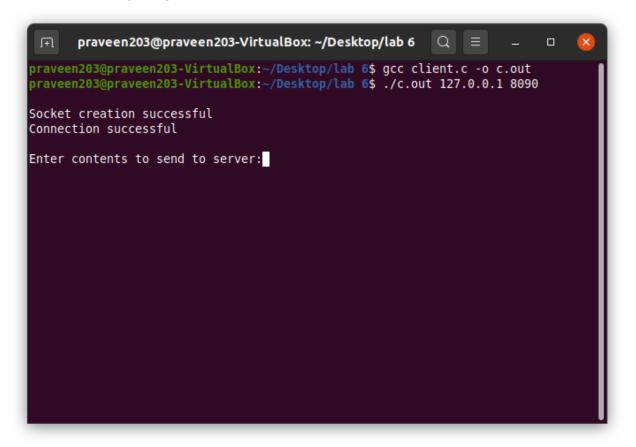
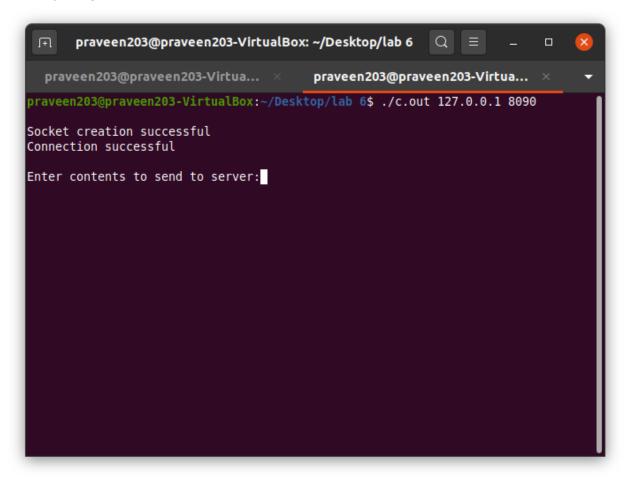
Computer networks lab 6

1. Server creation and waiting for clients:

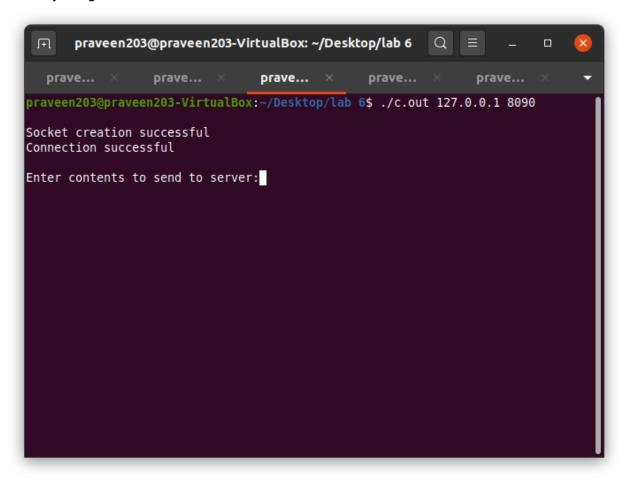
2. Client creation and joining server:



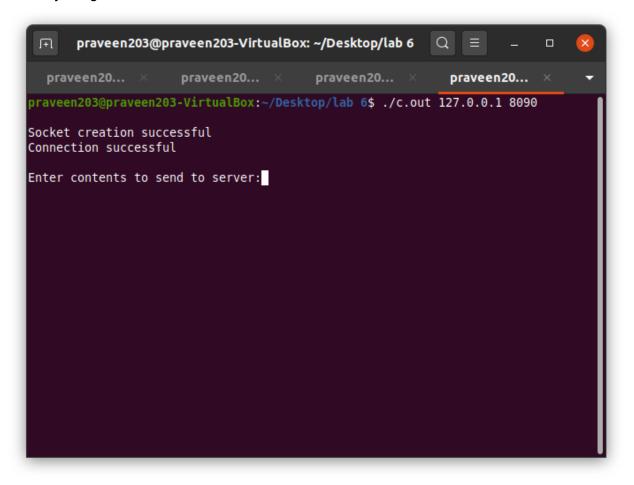
3. Client 2 joining server:



4. Client 3 joining server:



5. Client 4 joining server:



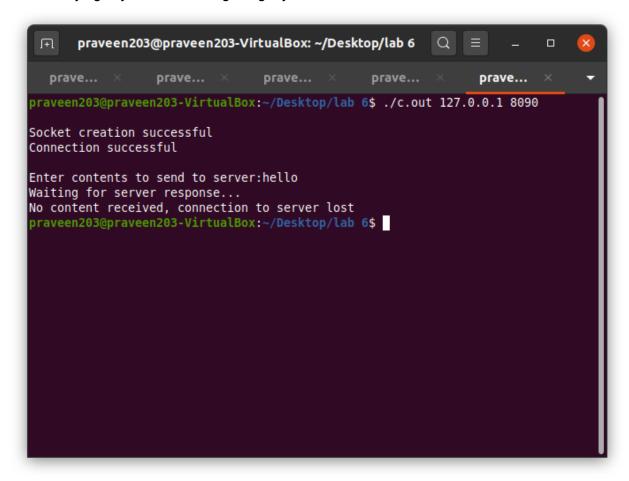
6. Server accepting all clients (because number of clients less than 4):

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praveen203@praveen203-VirtualBox: ~/Desktop/lab 6 Q = - □ ⊗

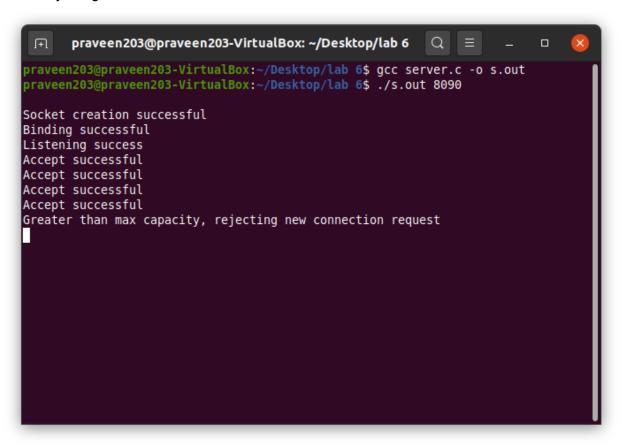
praveen203@praveen203-VirtualBox: ~/Desktop/lab 6$ gcc server.c -o s.out
praveen203@praveen203-VirtualBox: ~/Desktop/lab 6$ ./s.out 8090

Socket creation successful
Binding successful
Listening success
Accept successful
Accept successful
Accept successful
Accept successful
Accept successful
Accept successful
```

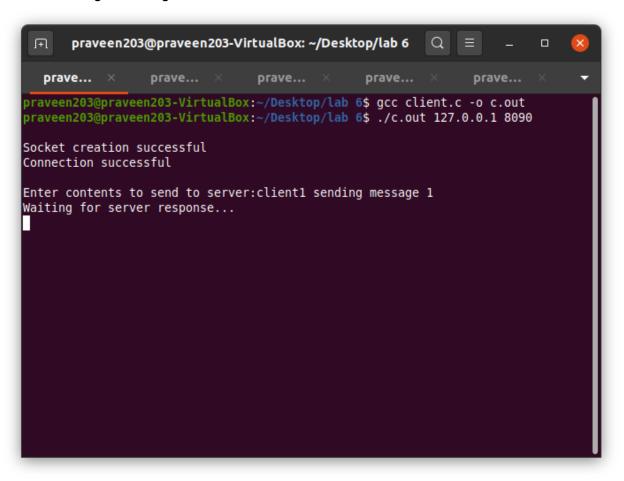
7. 5th client trying to join server and getting rejected:



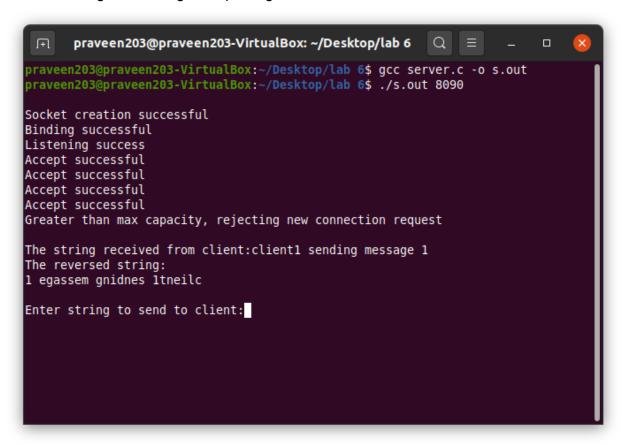
8. Server rejecting the 5th client:



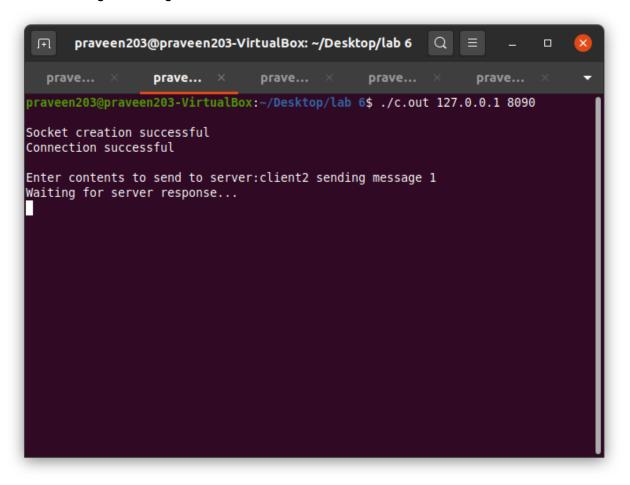
9. Client 1 sending a message to the server:



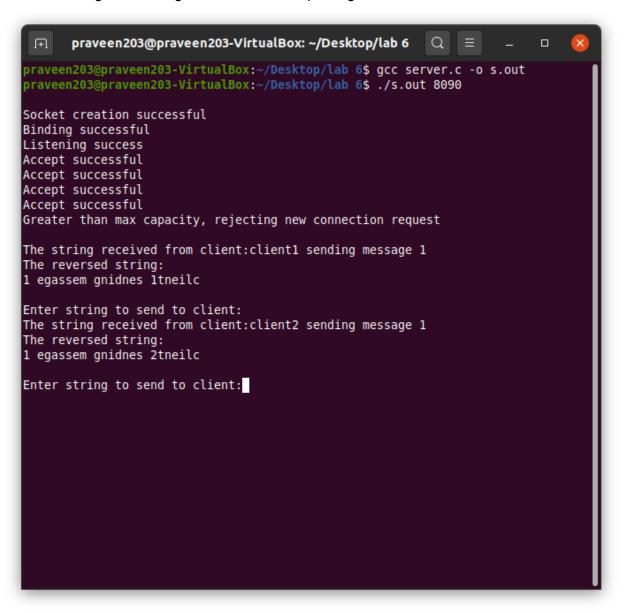
10. Server receiving the message and printing it reversed:



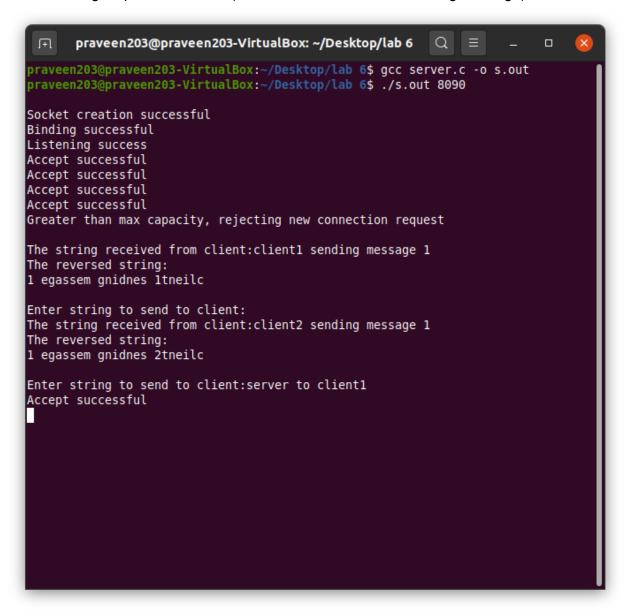
11. Client 2 sending a message to the server:



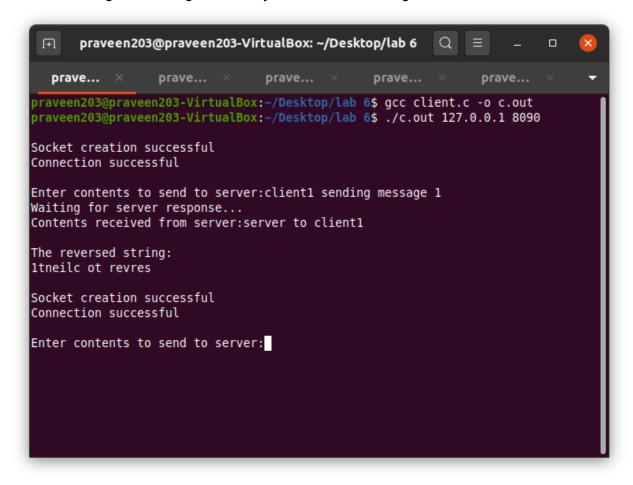
12. Server receiving the message from client 2 and printing it reversed:



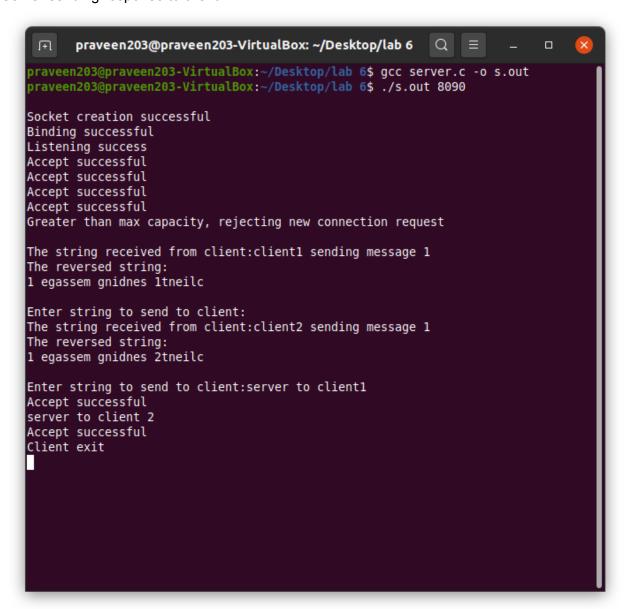
13. Server sending response to client 1(serves clients in order of receiving message):



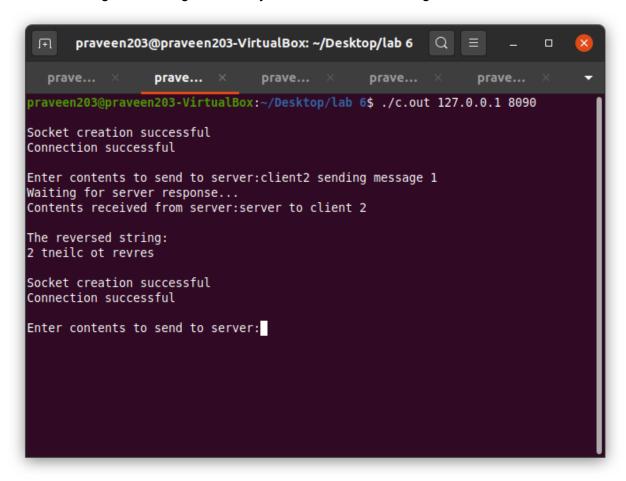
14. Client1 receiving the message and ready to send next message:



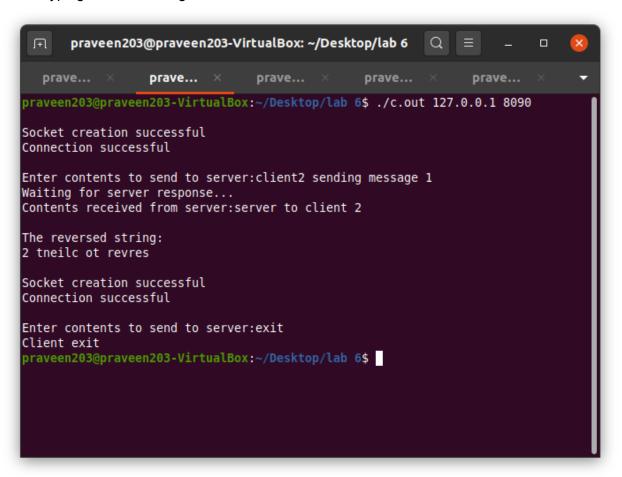
15. Server sending response to client 2:



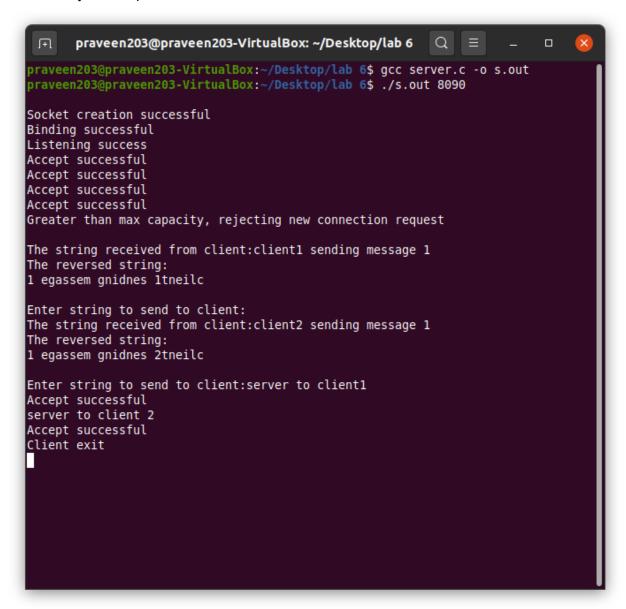
16. Client2 receiving the message and ready to send the next message:



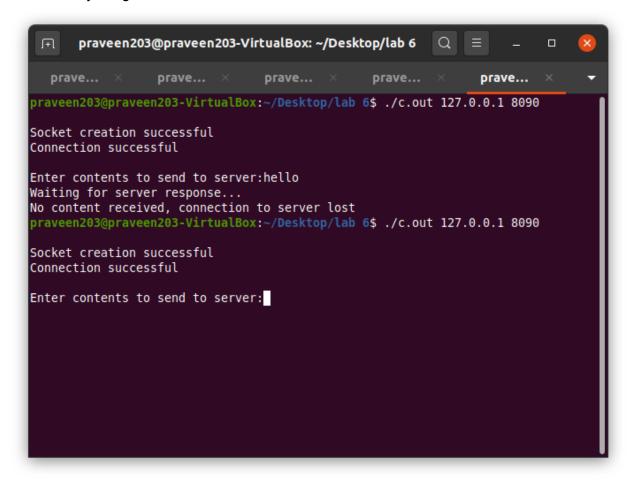
17. Client2 typing exit and exiting:



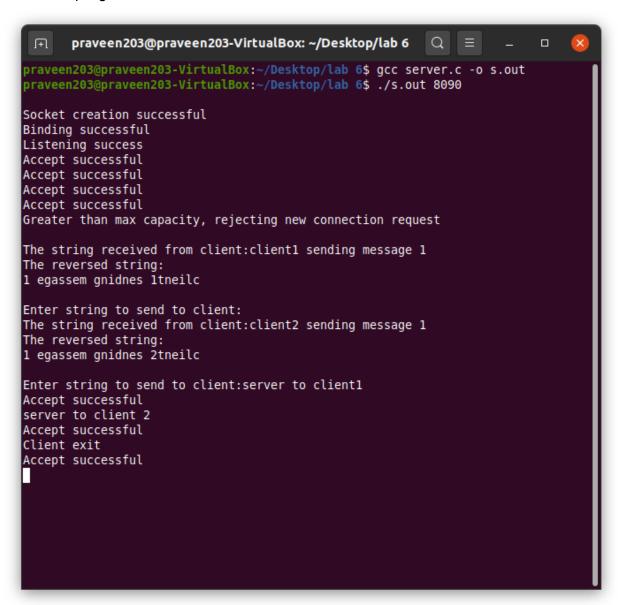
18. Server ready to accept a new connection because client 2 has left:



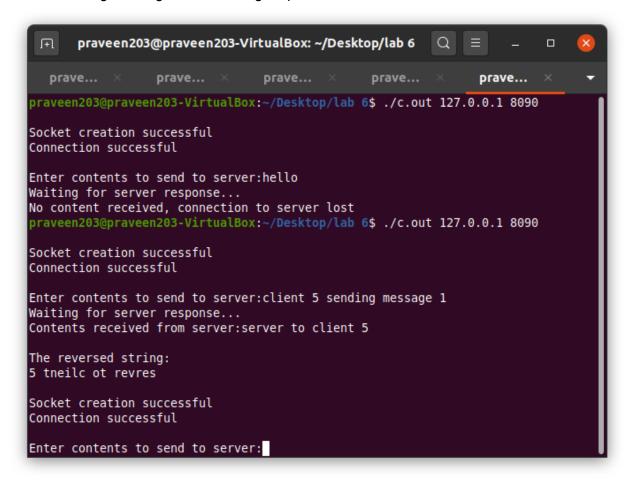
19. New client 5 joining the server:



20. Server accepting the new client:



21. Client 5 sending message and receiving response from the server:



22. Server receiving message from client 5 and sending response back:

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      praveen203@praveen203-VirtualBox: ~/Desktop/lab 6
                                                        Q =
                                                                        praveen203@praveen203-VirtualBox:~/Desktop/lab 6$ gcc server.c -o s.out
praveen203@praveen203-VirtualBox:~/Desktop/lab 6$ ./s.out 8090
Socket creation successful
Binding successful
Listening success
Accept successful
Accept successful
Accept successful
Accept successful
Greater than max capacity, rejecting new connection request
The string received from client:client1 sending message 1
The reversed string:
1 egassem gnidnes 1tneilc
Enter string to send to client:
The string received from client:client2 sending message 1
The reversed string:
1 egassem gnidnes 2tneilc
Enter string to send to client:server to client1
Accept successful
server to client 2
Accept successful
Client exit
Accept successful
The string received from client:client 5 sending message 1
The reversed string:
1 egassem gnidnes 5 tneilc
Enter string to send to client:server to client 5
Accept successful
```

Praveen Sridhar 2018A7PS0166G