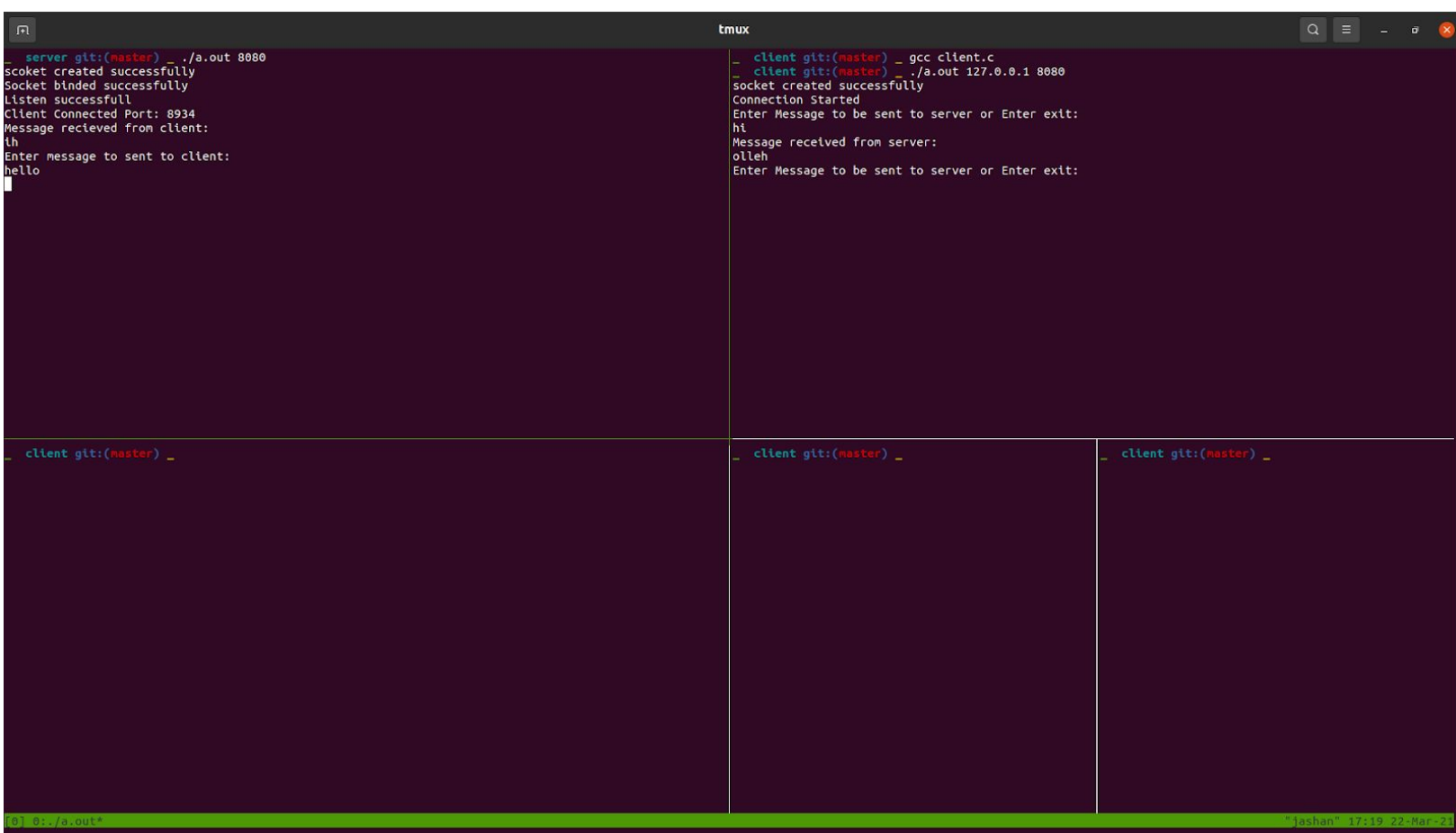


LAB-6

Name: Jashanpreet Singh
ID: 2018A7PS0134G

- 1) Server and Client able to send and receive data.



```
server git:(master) _ ./a.out 8080
Socket created successfully
Socket binded successfully
Listen successfull
Client Connected Port: 8934
Message recieved from client:
hi
Enter message to sent to client:
hello

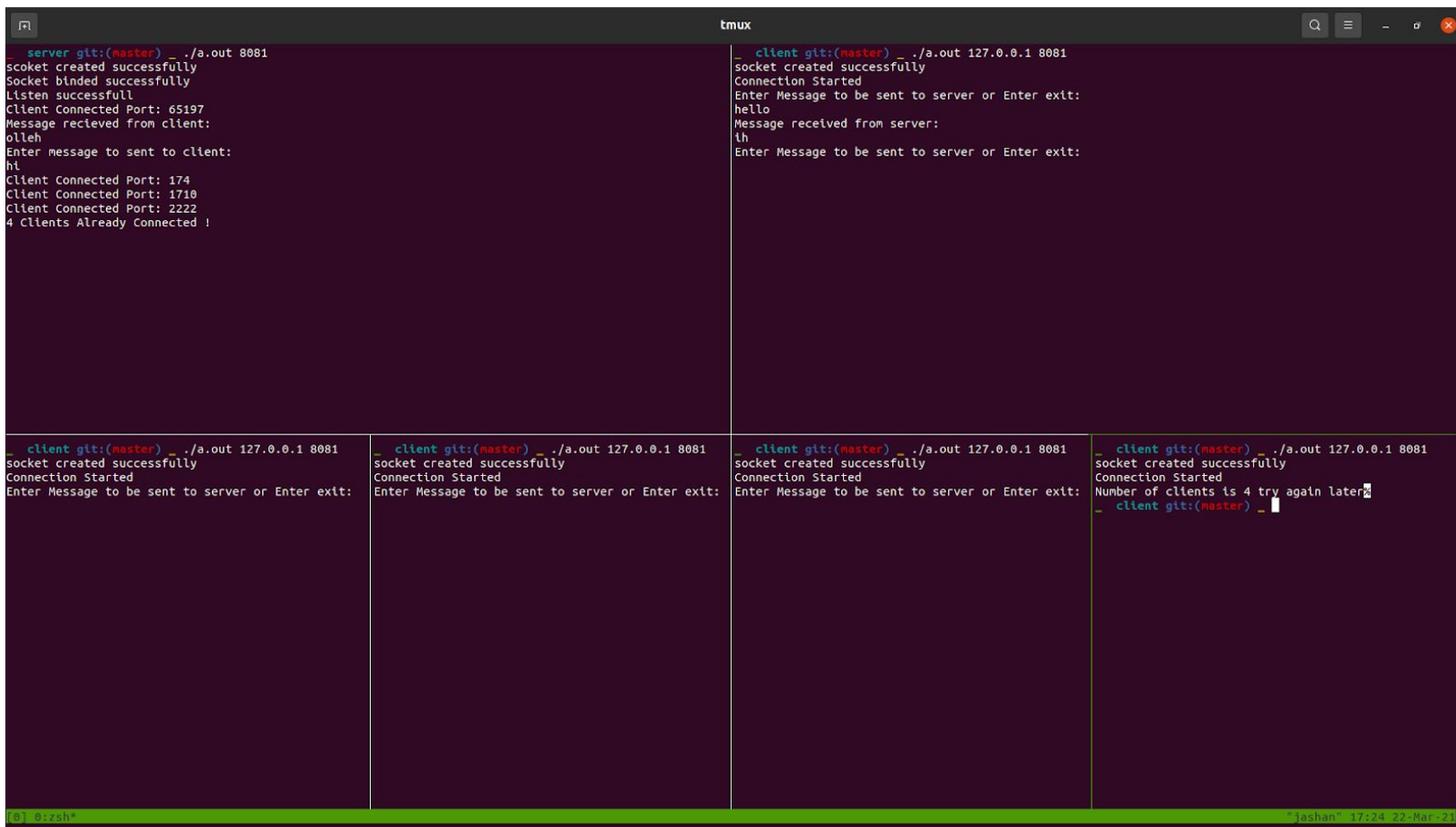
client git:(master) _ gcc client.c
client git:(master) _ ./a.out 127.0.0.1 8080
Socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:
hi
Message received from server:
olleh
Enter Message to be sent to server or Enter exit:

client git:(master) _
```

[0] 0:./a.out*

"jashan" 17:19 22-Mar-21

2) 4 Clients able to connect and 5th client is rejected.



```
tmux
server git:(master) _ ./a.out 8081
socket created successfully
Socket binded successfully
Listen successfull
Client Connected Port: 65197
Message recieved from client:
olleh
Enter Message to sent to client:
hi
Client Connected Port: 174
Client Connected Port: 1710
Client Connected Port: 2222
4 Clients Already Connected !

client git:(master) _ ./a.out 127.0.0.1 8081
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:
hello
Message received from server:
ih
Enter Message to be sent to server or Enter exit:

client git:(master) _ ./a.out 127.0.0.1 8081
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

client git:(master) _ ./a.out 127.0.0.1 8081
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

client git:(master) _ ./a.out 127.0.0.1 8081
socket created successfully
Connection Started
Number of clients is 4 try again later
client git:(master) _
```

0:zsh* "jashan" 17:24 22-Mar-21

3) Client is able to exit using the “exit” command without affecting the server and other clients.

```
tmux
- server git:(master) _ ./a.out 8080
socket created successfully
Socket binded successfully
Listen successfull
Client Connected Port: 59622
Message recieved from client:
olleh
Enter Message to sent to client:
hi
Client Connected Port: 61670
Client Connected Port: 62182
Client Connected Port: 62694
4 Clients Already Connected !
Client exited

- client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:
hello
Message received from server:
th
Enter Message to be sent to server or Enter exit:
exit
- client git:(master) _

- client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

- client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

- client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Number of clients is 4 try again later
- client git:(master) _
```

[0] 0:zsh* "jashan" 17:28 22-Mar-20

4) Another client is able to connect if the number of clients is less than 4.

```
tmux
server git:(master) _ ./a.out 8080
Socket created successfully
Socket binded successfully
Listen successful
Client Connected Port: 59622
Message recieved from client:
olleh
Enter Message to sent to client:
hl
Client Connected Port: 61670
Client Connected Port: 62182
Client Connected Port: 62694
4 Clients Already Connected !
Client exited
Client Connected Port: 231

client git:(master) _ ./a.out 127.0.0.1 8080
Socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:
hello
Message received from server:
ih
Enter Message to be sent to server or Enter exit:
exit
client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:

client git:(master) _ ./a.out 127.0.0.1 8080
socket created successfully
Connection Started
Enter Message to be sent to server or Enter exit:
Number of clients is 4 try again later
client git:(master) _

[0] 0: ./a.out*
```

"jashan" 17:29 22-Mar-23