NETWORKS LAB

Experiment:4

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Screenshots:

Fig.1 Running the server

```
File Edit View Terminal Tabs Help

[avinash@avinash-hp lab4]$ gcc client.c -o client1

[avinash@avinash-hp lab4]$ ./client1

Welcome to Group Chat

To Leave the Chat enter "exit"

Active clients:

None

Enter Your Name:
```

Fig.2: After running the client program it asks for a name to identify a client

```
Terminal -avinash@avinash-hpc-/lab4
File Edit View Terminal Tabs Help
File
```

Fig.3: After entering your name it will show you as a active client for upcoming clients.

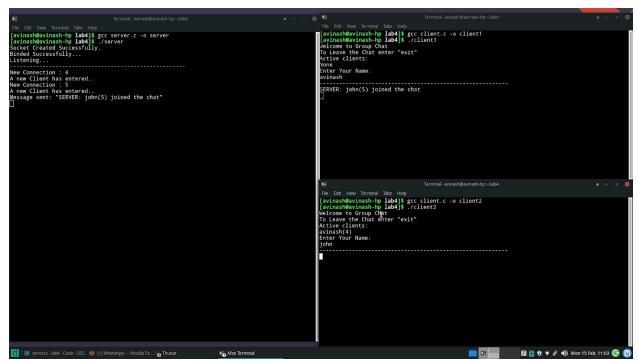


Fig.4: Running client2 and showing active clients for client2 and after accepting a new client the server will alert all the active users saying a new client has joined.

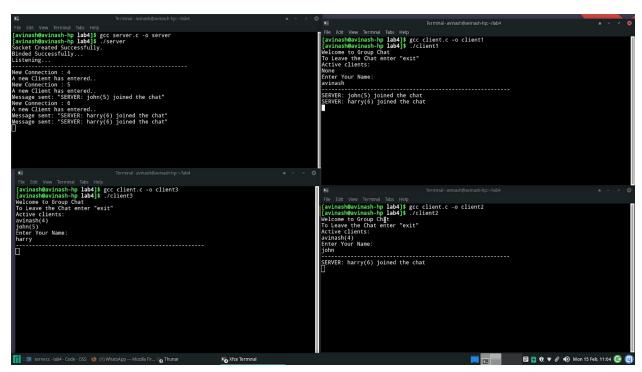


Fig.5: Running of client3 and showing active users for him

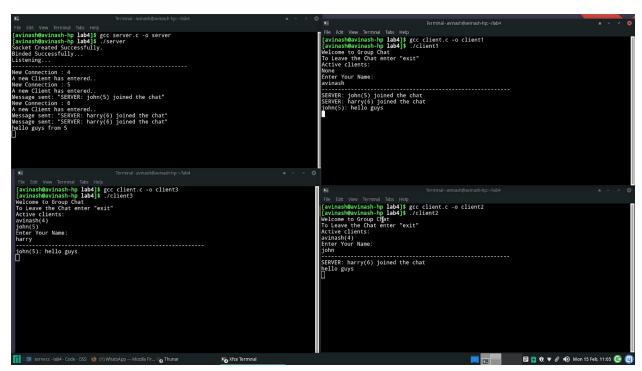


Fig.6 : Client2 sending a message to chat group(server) and all the active users receives that message along with client2 name so that they can identify from which client this message came from.

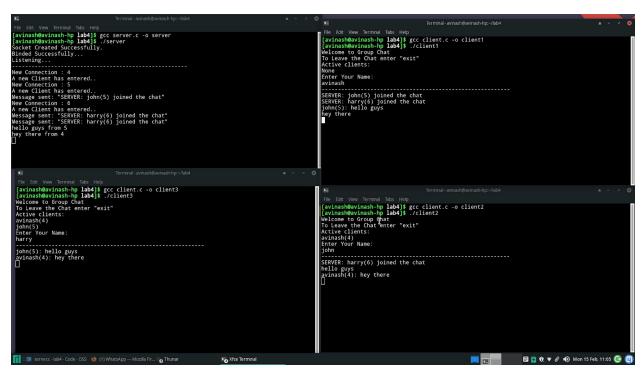


Fig.7: Client1 sees the message from client2 and replies back.

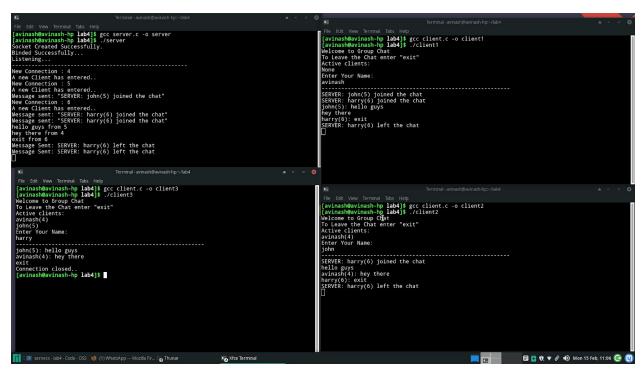


Fig.8 : Client3 exiting the group chat and all the active users will receive an alert for the same.

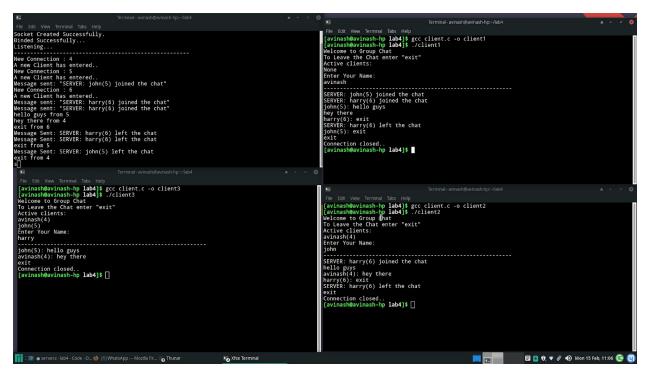


Fig.9: All the clients exited the group chat and the server is still up.