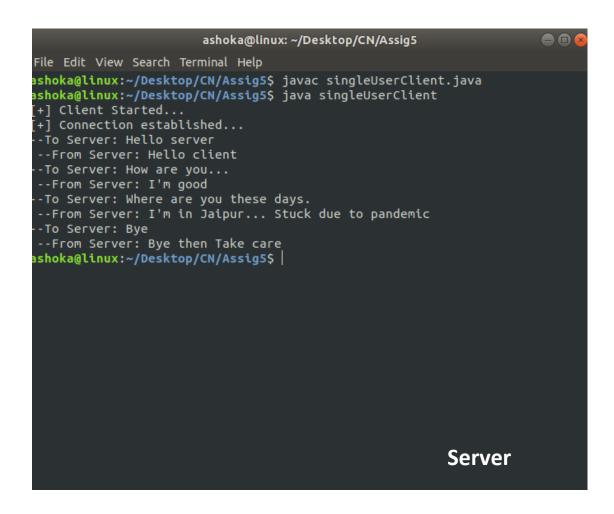
## Department of Computer Engineering TE Computer-A (2020-21 Sem I) Computer Networks Practical Assignment B1

- Q1. Write a program using TCP sockets for wired network to implement
  - a. Peer to Peer Chat
  - b. Multiuser Chat.

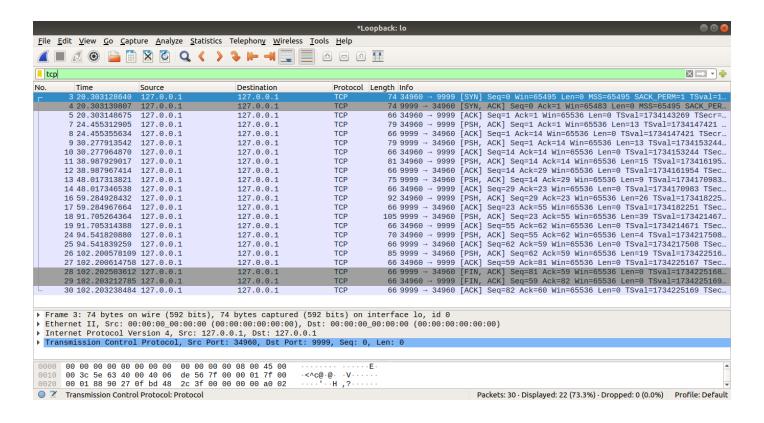
### a. Peer to Peer Chat

# **Terminal output window**

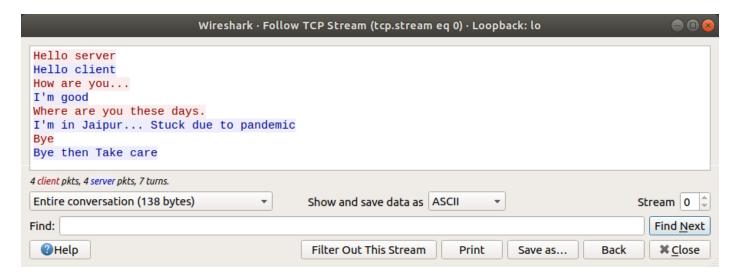


```
ashoka@linux: ~/Desktop/CN/Assig5
                                                                      File Edit View Search Terminal Help
ashoka@linux:~/Desktop/CN/Assig5$ javac singleUserServer.java
ashoka@linux:~/Desktop/CN/Assig5$ java singleUserServer
Waiting for clients...
--From Client: Hello server
--To Client: Hello client
--From Client: How are you...
--To Client: I'm good
--From Client: Where are you these days.
--To Client: I'm in Jaipur... Stuck due to pandemic
--From Client: Bye
-- To Client: Bye then Take care
ashoka@linux:~/Desktop/CN/Assig5$
                                                               Client
```

### Wireshark windows



#### **TCP STREAM**



### a. Multiuser Chat

## **Terminal output window**

```
ashoka@linux: ~/Desktop/CN/Assig5

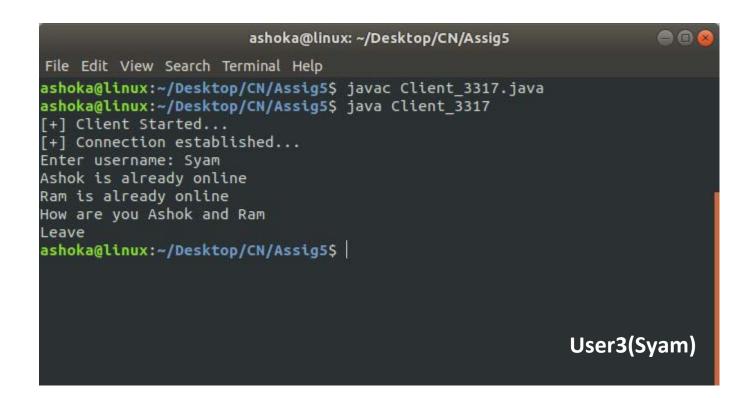
File Edit View Search Terminal Help
ashoka@linux:~/Desktop/CN/Assig5$ javac Server_3317.java
ashoka@linux:~/Desktop/CN/Assig5$ java Server_3317

[+] Waiting for Clients...

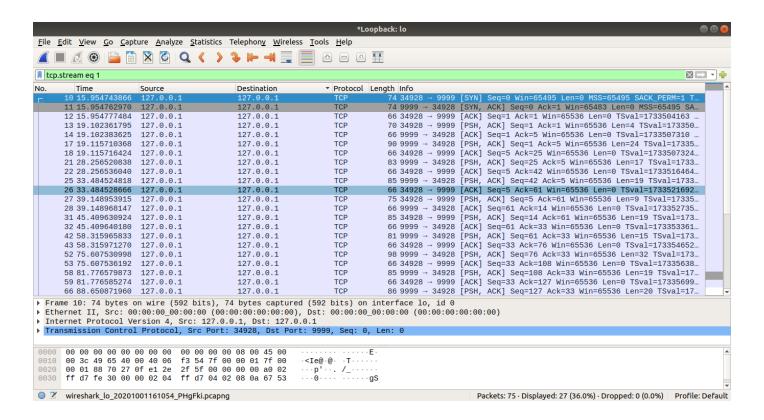
Server
```

```
ashoka@linux: ~/Desktop/CN/Assig5
                                                                      File Edit View Search Terminal Help
ashoka@linux:~/Desktop/CN/Assig5$ javac Client_3317.java
ashoka@linux:~/Desktop/CN/Assig5$ java Client_3317
[+] Client Started...
[+] Connection established...
Enter username: Ashok
Hello everyone
-->Sorry, No other users online
Ram is online
Hello Ram
How are you
Ram
 --> I'm good
  --> Everything is fine
Syam is online
Syam
 --> How are you Ashok and Ram
Syam Left the chat
                                                          User1(Ashok)
Leave
ashoka@linux:~/Desktop/CN/Assig5$
```

```
ashoka@linux: ~/Desktop/CN/Assig5
File Edit View Search Terminal Help
ashoka@linux:~/Desktop/CN/Assig5$ javac Client_3317.java
ashoka@linux:~/Desktop/CN/Assig5$ java Client 3317
[+] Client Started...
[+] Connection established...
Enter username: Ram
Ashok is already online
Ashok
 --> Hello Ram
Ashok
 --> How are you
I'm good
Everything is fine
Syam is online
Syam
 --> How are you Ashok and Ram
Syam Left the chat
Ashok Left the chat
                                                          User2(Ram)
Leave
ashoka@linux:~/Desktop/CN/Assig5$
```



### Wireshark windows



#### **TCP STREAM**

