Project report

In this project we aimed to introduce a bi- direction chatting application using the "java socket programming" with imported libraries

MILESTONE1

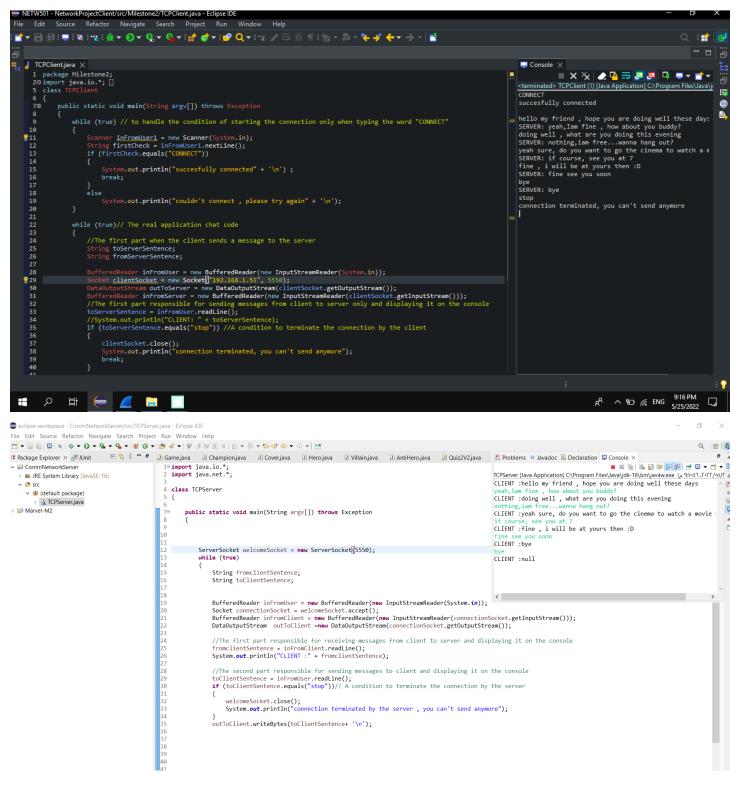
- 1. We created a java project and implemented two packages in it
- 2. The first package concerning our first milestone which goes by the following steps
- 3. We created two Class (TCPClient, TCPServer) and pasted the code found In the slide but replacing the word "hostname" with "local host" as we are using the same PC.
- 4. We used a distinctive port number for each run and this is the code for the the client class and the Server respectively

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| Network Projection of Project Name Wilder | Network |
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MILESTONE2

- 1. In this milestone we tend to establish the real chatting application by editing our code as follows:
- 2. Firstly, the client can only establish the connection by typing the word "CONNECT" in the console of the client, otherwise no connection will be established so I'm using a loop to fulfill this case.
- 3. Secondly, once a connection is established the client send the first message to the server in one line and then presses enter, so the statement will apparat immediately in the console of the server
- 4. The Client and the server will keep sending the message alternatively each message per turn for only one party of the server and client.
- 5. The Chat will keep going till one of the party enters the word "stop", after that the socket will be closed from both sider and the connection will be terminated i.e. no one of the party will send any thing any more or an exception will be thrown.

The code for the client and the server as shown down here respectively



MILESTONE3

- In this milestone we use the wireshark sniffing application to trace the packet we sent.
 - We chose wifi then set ip.addr = our ip address
 - We trace any packet we find that is using the TCP layering

