

## **Internetworking Assignment : Chat System**

### **Implement P23.4**

You should turn in 2 projects exported from Eclipse. One is a client. One is a server.

You can work in pairs.

This is how you should run the server

```
java -jar myServer 8888
```

This should instruct the server to start a process to accept sockets on port 8888.

This is how you should run the client

```
java -jar myClient Don 192.128.64.63 8888
```

This should start the client and instruct the client to use the name "Don" and connect to the server at IP address 192.128.64.63 port 8888

Once the client is started, it should connect to the server and wait for input from the user. When the user types something and then hits <enter>. The text should be sent to the server.

The server should then broadcast the message back to all clients that have logged in, prepended with the name of the sender.

So if three clients log in, Aaron, Betsy and Carl then the following could happen:

```
java -jar myServer 8888
```

```
java -jar myClient Aaron 192.128.64.63 8888  
Hi!  
Carl: Hey!  
Betsy: Hello!  
Carl: Did you do the homework?  
Obviously!
```

```
java -jar myClient Betsy 192.128.64.63 8888  
Aaron: Hi!  
Carl: Hey!  
Hello!  
Carl: Did you do the homework?  
Aaron: Obviously!
```

```
java -jar myClient Carl 192.128.64.63 8888  
Aaron: Hi!  
Hey!  
Betsy: Hello!  
Did you do the homework?  
Aaron: Obviously!
```