My approach to this homework assignment was very interesting because I was very unsure about how to complete the requirements based on my little amount of background knowledge I had on this assignment. I followed along with the lab to get my base knowledge down and went from there.

I first started with the server. I used the same port number and the name "localhost" for the hostname. I then worked on what I needed to connect to the server using the port number 4444. I Worked a little in the client as well to see If I could get the connection down initially. I got stuck on getting connected because I kept getting "bind exception".

Moving on with server.java, I kept the listClientHandler because I needed this class in order to read and write between the client. I got rid of the integer num because we no longer had to keep track of how many clients there were. Within ListClientHandler, I tell the client that they are connected to the group chat, and then I check if anyone has messaged anything, and if so, their message is displayed on everyone's console with the messenger's name.

Within Client.java, I create a new client, reader and writer. The reader and writer have their own classes. Within those classes, The reader gets prompted to enter their name, and if they do, are then prompted to send a message. Their message is printed after the words "Text:" Vice versa, I use a buffered reader in my Writer class to read in the next line and print off the given message.

I basically took this project step by step, and got help when I needed it and got stuck. After I finished this assignment, I added a little bit of my own flare to it and made it fun for the clients. I then made my readMe to finish off the project.

```
Client [Java Application] /Library/Java/JavaVirtualMachines/jdk
Austin
You are connected to chat! Welcome!
Text:
Good Evening! hows the weather by you?
```

```
Server [Java Application] /Library/Java/JavaVirtualMachi
Server Started
Waiting for client
```

```
Server [Java Application] /Library/Java/JavaVirtualMachines/jdk1
Hello
Merin: Hello!
Waiting for client
Austin: Good Evening! hows the weather by you?
```

```
Client [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_121.

Hello!
Austin: Good Evening! hows the weather by you?
Text:
```

```
Client [Java Application] /Library/Java/JavaVirtualMachin
>Enter Your Name:
Merin
You are connected to chat! Welcome!
Text:
```