# **Function implemented:**

#### 1- usrInfo():

a. This is a Boolean function which check if the username and password entered by the Client is an authorized root access.

# 2- notFoundCommands():

a. This function is to check if the commands that entered by the clients are matching for the root access. For examples if normal user entered "MSGSTORE", the system will display an error because these commands are only for root access. It also checks if the user is typing something the is not in the range of the commands for example if the user typed "ENTER" then it will display an error that will say commands are not founds.

# 3- writeToFile():

a. This function will write message to the file for example. If the user Entered command "MSGSTORE", then it will ask him for a quote, then the quote will be saved to a file.

#### 4- readFile():

a. This function will read a message from a file to the client. The function will run and save all the information inside an array List which it will be display to the client

# How to run the Program:

# **Steps:**

#### Mac OSX:

#### o Terminal

- 1- Open Terminal then write "cd location of the file you Downloaded". [ENTER].
- 2- Then now you are inside the file location so now do "cd p1" [ENTER].
- 3- Now You are inside p1 so then you do "cd p1-client-server" [ENTER].
- 4- Now you are inside the folder p1-client-server, So now you go to "cd src" [ENTER].
- 5- Now you are inside the src folder, to run the program all you have to do is "javac TCPClient2.java" [Enter]
- 6- Then you do "java TCPServer2" [Enter] to run the program
- 7- Now you repeat the steps from steps 5 to step 6 to run the file "TCPClient2"

# Or Follow copy past \*Open new Terminal\*

#### Server side first:

Project\_Hlsham\_Hussein\_and\_Ibrahim\_Alzyady cd p1 cd p1-client-server cd src javac TCPServer2.java java TCPServer2

# \*\*Open new Terminal\*\*

# Client side second:

cd CIS-427Project\_HIsham\_Hussein\_and\_Ibrahim\_Alzyady
cd p1
cd p1-client-server
cd src
javac TCPClient2.java
java TCPClient2

# o In NetBeans and another compiler:

- 1- First go to the NetBeans and go to File->Open then choose the location that you saved the file.
- 2- Inside NetBeans, on the left there is an windows that shows the projects that is opened.
- 3- Click on the Project called "p1-client-server"
  - a. Click on the folder called Source Packages.
  - b. Double tab on the "<default packages>"
- 4- Right click on the File name "TCPServer2.java", and click right File
- 5- Then right click on the File name "TCPClient2.java" and click run.
- 6- You done.

#### Windows:

- Repeat the NetBeans section compiler
- o Or run the .EXE file

**Output result:** 

