**FOR YOUR CONVIENIENCE I have put the entire assignment on GitHub please view at the link below:** <https://github.com/Smmentel/CS401Assignments/tree/main/Assignment01>

To run this code in the proper manner, you will need Eclipse or at least some java language complier.

(Also, preferably two or more devices to better exemplify what is occurring.)

**1.** Begin with the server side on device 1, the code to compile is in the folder "Server side" which should contain the following files:

- Dictionary.java

- Dictionary.txt

- DictionaryDefinition.java

- HandleClient.java

- Server.java

**2.** On a separate device, device 2, compile only the following file: client.java

**3.** BEFORE COMPILING client.java:

If you are using two separate devices, before compiling client.java please ensure that the IP Address is correct!

- The IP Address should be device 1's IP address, otherwise known as the Server's side IP address.

- To find it simply enter "ipconfig" into device 1's terminal, under "Wireless LAN adapter Wi-Fi" there is a section called "IPv4 Address."

- The corresponding number given is what you enter in the client-side code at the point:

"Socket socket = new Socket("localHost",8000);"

(Replace localHost with the given IP address, unless performing code on same device)

**4.** Run Server side first, then run as many clients as you wish on other devices.