## Assignment 3 – Sockets & Signals  - Yash Hitendra Rathod

First, we run the server.c program, which establishes a socket connection and waits for a connection from the client.

When the client.c is run, it establishes a connection to the default IP Port 127.0.0.1:9000 (Which we have configured in server.c)

-Running Client.c program and entering the input with secret code:

```
yash@yash-VirtualBox:~/Documents/Assignment2$ ./client
Connected to Server, to disconnect type 'EXIT'

Please enter your line of text with Secret Code: This is the C00L Secret 1st Code.

Please enter your line of text with Secret Code:
```

-The server terminal receives the string as shown. When it receives the input, it counts the number of digits and stores in the secrets.out file it has created.

```
yash@yash-VirtualBox:~/Documents/Assignment2$ ./server
Waiting for client connection....
Established connection from the client at 127.0.0.1
Recieved from Client: This is the C00L Secret 1st Code.
```

-When Ctrl+C is pressed on the server terminal, it shows the number of messages and total digits count.

```
yash@yash-VirtualBox:~/Documents/Assignment2$ ./server
Wa Terminal r client connection....
Established connection from the client at 127.0.0.1
Recieved from Client: This is the C00L Secret 1st Code.

^C
Total Number of Lines Recieved from client: 1, Total Number of Digits Recieved from client: 3
```

-Secrets.out file

```
                              secrets.out

Line from User: This is the C00L Secret 1st Code.

Number of Digits: 3
```