

# COMPUTER NETWORKS ASSIGNMENT 01

#### **Group Members:**

- i) Bilal Ahmed Khan (20k0183)
- ii) Muaaz Alam (20k0212)

#### Task:

Develop a simple "Chat Messenger" that is connection oriented (i.e. it uses TCP) and that consists of a Client and a Server Program.

- 1) The Server runs first and waits for some client to contact it.
- 2) Client Program starts and connects to the server.
- 3) Client-Server sends and receives messages.

#### **Libraries Used:**

### i) Tkinter:

Python library for creating Graphical User interface.

### ii) Threading:

Used to created threads for sending and receiving messages.

#### iii) Socket:

For creating sockets for communication between server and clients.

# **Working of Program:**

## i) Server Side:

```
PS C:\Users\Bilal\Desktop\CN Assignment 01> python -u "c:\Users\Bilal\Desktop\CN Assignment 01\server.py"
Enter port number: 3000
Server Up and Running
Enter 'Quit' to terminate the Server:
('127.0.0.1', 64259):

delivering message: ('127.0.0.1', 64259):

('127.0.0.1', 64260):

delivering message: ('127.0.0.1', 64260):

Just delivered Message
('127.0.0.1', 64259): Hi I am bilal, how are you?

delivering message: ('127.0.0.1', 64259): Hi I am bilal, how are you?
```

## ii) Client Side

Client 01:



