Shubham Takankhar

GR.No 119C0046 Roll No 54

ASSIGNMENT 6

Develop chat room application using multithreading

Source Code

```
FILE 1: Server.py
import socket
import sys
import time
new_socket = socket.socket()
host_name = socket.gethostname()
s_ip = socket.gethostbyname(host_name)
port = 8080
new_socket.bind((host_name, port))
print('Binding successfull')
print("This is your IP: ", s_ip)
name = input('Enter name:')
new_socket.listen(1) #NO OF CLIENTS TO BE CONNECTED
conn, add= new_socket.accept()
print("Received connection from ", add[0])
print('Connection Established. Connected From: ',add[0])
client = (conn.recv(1024)).decode()
print(client + ' has connected.')
```

```
conn.send(name.encode())
while True:
   message = input('Me : ')
   conn.send(message.encode())
   message = conn.recv(1024)
   message = message.decode()
   print(client, ':', message)
FILE 2: Client.py
import socket
import sys
import time
socket_server = socket.socket()
server_host = socket.gethostname()
ip = socket.gethostbyname(server_host)
sport = 8080
print('This is your IP address: ', ip)
server_host = input('Enter friend\'s IP address:')
name = input('Enter Friend\'s name: ')
socket server.connect((server host, sport))
socket_server.send(name.encode())
server_name = socket_server.recv(1024)
server_name = server_name.decode()
print(server_name,' has joined...')
while True:
   message = (socket_server.recv(1024)).decode()
   print(server_name, ":", message)
   message = input("Me : ")
    socket_server.send(message.encode())
```

Output <Screenshot>

