Bhagyashri Sutar

Roll No.75

Practical.7(server)

Client

```
import socket, threading
PORT = 5050
SERVER = socket.gethostbyname (socket.gethostname ())
ADDR = (SERVER, PORT)
FORMAT = 'utf-8'
HEADER = 64
DISCONNECT MESSAGE = '!DISCONNECT'
server = socket.socket (socket.AF INET, socket.SOCK STREAM)
server.bind (ADDR)
def clientHandling (connection, address):
    print (f'[NEW CONNECTION] {address} connected')
    isConnected = True
    while isConnected:
        messageLength = connection.recv (HEADER).decode (FORMAT)
        if messageLength:
            messageLength = int (messageLength)
            message = connection.recv (messageLength).decode (FORMAT)
            if message == DISCONNECT MESSAGE:
                isConnected = False
            print (f'[{address}] {message}')
            connection.send ('Message Recieved'.encode (FORMAT))
    connection.close ()
def start ():
    server.listen ()
    print (f'[LISTENING] Server is listening on {SERVER}')
    while True:
        connection, address = server.accept ()
        thread = threading.Thread (target=clientHandling,
args=(connection, address))
        thread.start ()
        print (f'[ACTIVE CONNECTION] {threading.active count () - 1}')
print ('[SERVER STARTING] server has been started')
start ()
[SERVER STARTING] server has been started
,[LISTENING] Server is listening on 192.168.75.1
```

```
,[NEW CONNECTION] ('192.168.75.1', 54293) connected[ACTIVE CONNECTION] 6
, [('192.168.75.1', 54293)] Hello World
,[('192.168.75.1', 54293)] !DISCONNECT
```