LAB-13

Write a program on a datagram socket for the client/server to display the messages on the client side typed at the server-side.

UDP-SERVER

```
import socket
localIP = "127.0.0.1"
localPort = 20001
bufferSize = 1024
                  = "HELLO HELLO HELLLO00000"
msgFromServer
bytesToSend
                  = str.encode(msgFromServer)
UDPServerSocket = socket.socket(family=socket.AF INET, type=socket.SOCK DGRAM)
UDPServerSocket.bind((localIP, localPort))
print("UDP server up and listening")
# Listen for incoming datagrams
while(True):
   bytesAddressPair = UDPServerSocket.recvfrom(bufferSize)
   message = bytesAddressPair[0]
   address = bytesAddressPair[1]
   clientMsg = "Message from Client:{}".format(message)
   clientIP = "Client IP Address:{}".format(address)
   print(clientMsg)
   print(clientIP)
   UDPServerSocket.sendto(bytesToSend, address)
```

UDP-CLIENT

C:\Users\Ashwani>python -u "c:\Users\Ashwani\OneDrive\Desktop\Random Files\UDP-CLIENT.py" Message from Server b'HELLO HELLO HELLLO00000'

```
PS C:\Users\Ashwani> python -u "c:\Users\Ashwani\OneDrive\Desktop\Random Files\UDP -SERVER.py"
UDP server up and listening
Message from Client:b'Hello UDP Server'
Client IP Address:('127.0.0.1', 62875)
```