LAB 16

Using UDP sockets, write a client-server program to make the client send the file name and the server to send back the contents of the requested file if present.

CODE:

ClientUDP.py

from socket import * serverName = “127.0.0.1” serverPort = 12000 clientSocket = socket(AF_INET, SOCK_DGRAM) sentence = input(“\nEnter file name: “) clientSocket.sendto(bytes(sentence,”utf-8”),(serverName, serverPort)) filecontents,serverAddress = clientSocket.recvfrom(2048) print (“\nReply from Server:\n”) print (filecontents.decode(“utf-8”)) # for i in filecontents: # print(str(i), end = “ ”) clientSocket.close() clientSocket.close() ServerUDP.py

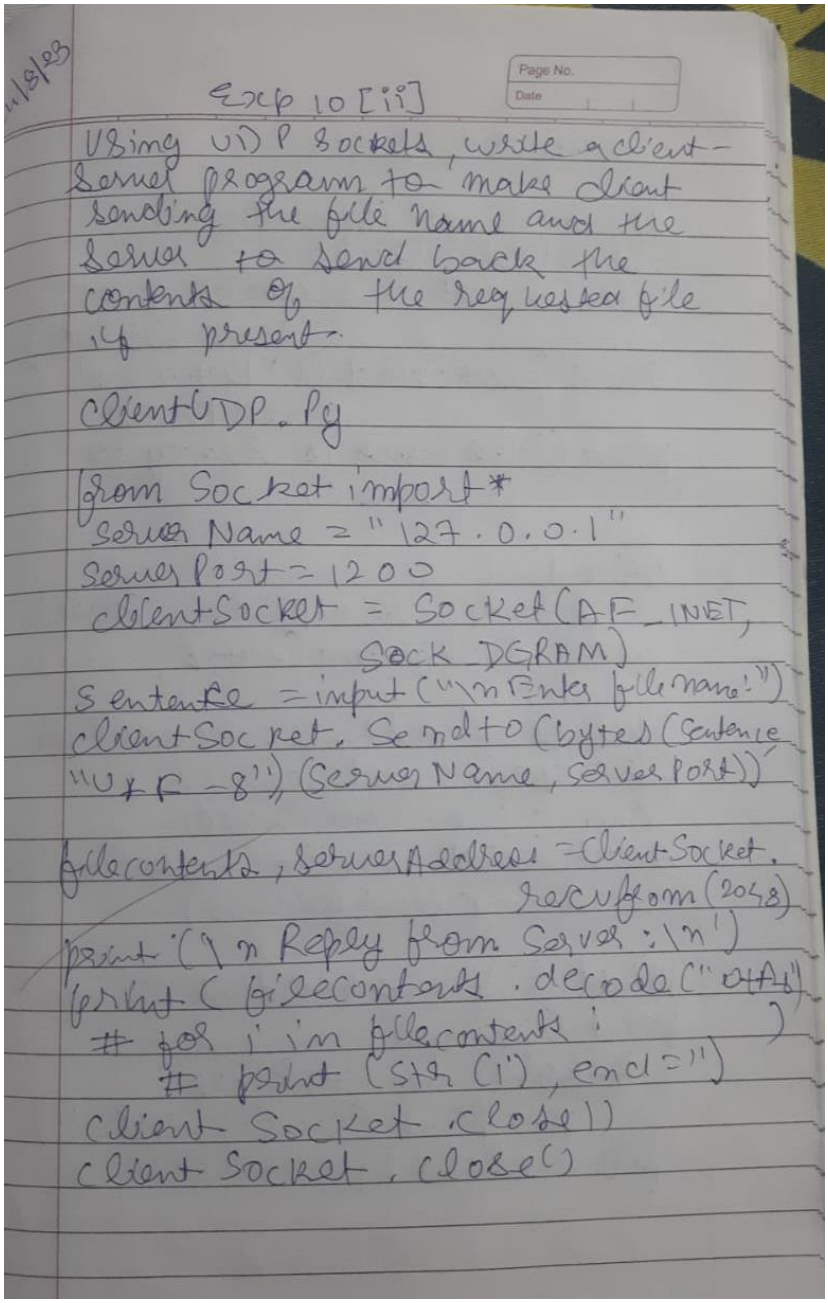
from socket import * serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind((“127.0.0.1”, serverPort))
print (“The server is ready to receive”) while
1:
sentence, clientAddress = serverSocket.recvfrom(2048)
sentence = sentence.decode(“utf-8”) file=open(sentence,”r”)
con=file.read(2048) serverSocket.sendto(bytes(con,”utf-8”),clientAddress) print (“\nSent contents of “, end = “ “) print (sentence) # for i in sentence: # print (str(i), end = “ “) file.close()

OUTPUT:

```
Enter file name: ServerUDP.py

Reply from Server:

from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))
print ("The server is ready to receive")
while 1:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode("utf-8")
    file=open(sentence,"r")
    con=file.read(2048)
    serverSocket.sendto(bytes(con,"utf-8"),clientAddress)
    print ("\nSent contents of ", end = " ")
    print (sentence)
    # for i in sentence:
    # print (str(i), end = '')
    file.close()
```

```
The server is ready to receive

Sent contents of  ServerUDP.py
```

OBSERVATION:



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Using UDP Sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.

clientUDP.py

```
from Socket import *
serverName = "127.0.0.1"
serverPort = 1200
clientSocket = socket(AF_INET,
                      SOCK_DGRAM)
sentence = input("\nEnter filename:")
clientSocket.sendto(bytes(sentence,
"UTF-8"), (serverName, serverPort))

fileContents, serverAddress = clientSocket.
                              recvfrom(2048)
print("\n Reply from Server :\n")
print(fileContents.decode("UTF-8")
# for i in fileContents:
    # print(str(i), end="")
clientSocket.close()
clientSocket.close()
```

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Server UDP.py

```
from Socket import *
serverPort = 12000
serverSocket = socket(AF_INET,
                      SOCK_DGRAM)
serverSocket.bind(("127.00.1",
                   serverPort))
print("The server is ready to
      receive")

while 1:
    sentence, clientAddress = serverSo-
    cket.recvfrom(2048)

sentence = sentence.decode("utf-8")
file = open(sentence, "r")
con = file.read(2048)
serverSocket.sendto(bytes(con, "utf-
                    clientAddress)

print('\n sent contents of', end=' ')
print(sentence)
    # for i in sentence:
        # print(str(i), end="")
file.close()
```