2. 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.

Q. Using UDP Sockets, write a Client-Server program to make client sending the file name & the Server to send back the contents of the requested file if present.

Solution:

Client.py

```
from socket import *
ServerName = "127.0.0.1"
Server port = 12000
ClientSocket = Socket(AF_INET, SOCK_DGRAM)
Sentence = input("\n Enter file name:")

ClientSocket.Sendto(bytes(Sentence, "utf-8"),(ServerName,
ServerPort))
fileContents, ServerAddress = ClientSocket.recvfrom(2048)
print('\n Reply from Sever:\n')
print(fileContents.decode("utf-8"))
#for i in fileContents:
    #print(str(i), end="")
ClientSocket.close()
ClientSocket.close()
```

Server.py

```
import Socket
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")
con = file.read(2048)
serverSocket.sendto(bytes(con,"utf-8"), clientAddress)
print('\n Sent Contents of', end = '')
print(Sentence)
# for i in Sentence:
    # print(str(i), end = '')
file.close()
```

Output:

```
Server --> The server is ready to receive
Sent Contents of Server.py.
The Server is ready to receive.
```

```
Client --> Client.py
Enter file name: Server.py
Reply from Server:
from socket import *
server port = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))
while 1:
    print("The server is ready to receive")
    Sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = Sentence.decode("utf-8")
    file = open(sentence, "r")
    l = file.read(2048)
    serverSocket.sendto(bytes(l,"utf-8"), clientAddress)
    print('\n sent contents of', end = ' ')
    print(sentence)
```

```
# for i in sentence:
    # print (str(i), end=' ')
file.close()
```

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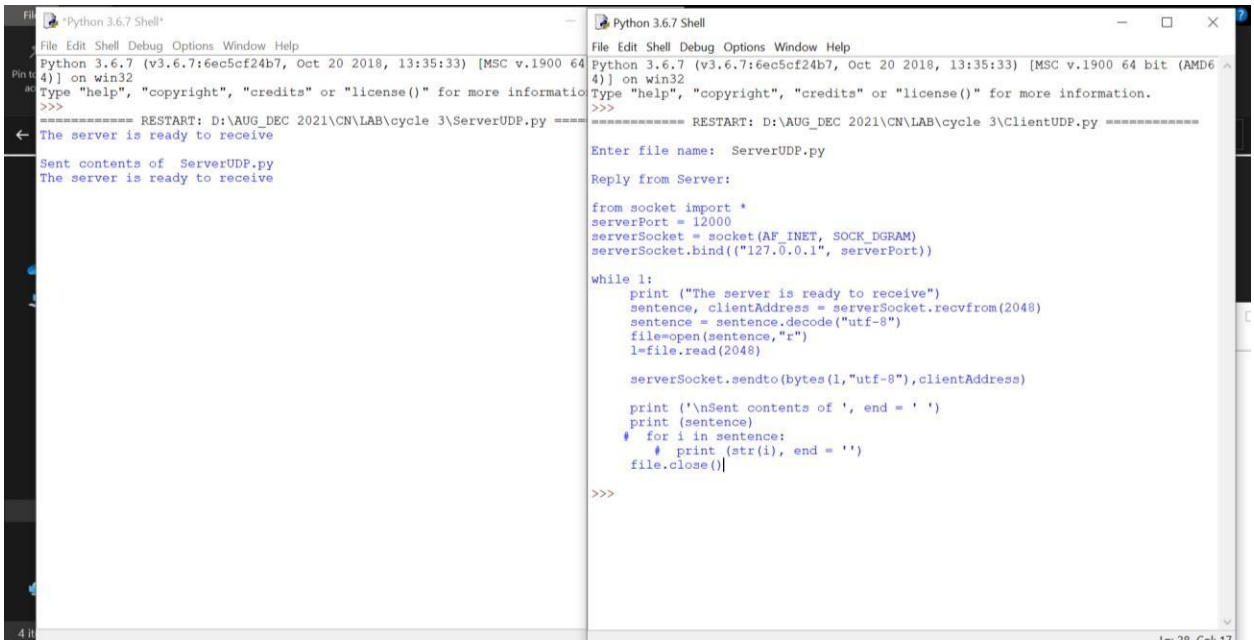
OUTPUT:


Python 3.6.7 Shell
File Edit Shell Debug Options Window Help
Python 3.6.7 (v3.6.7:6ec5cf24b7, Oct 20 2018, 13:35:33) [MSC v.1900 64
4)] on win32
Type "help", "copyright", "credits" or "license()" for more informatio
>>>
========== RESTART: D:\AUG_DEC 2021\CN\LAB\cycle 3\ServerUDP.py ====
The server is ready to receive
Sent contents of ServerUDP.py
The server is ready to receive
Python 3.6.7 Shell
File Edit Shell Debug Options Window Help
Python 3.6.7 (v3.6.7:6ec5cf24b7, Oct 20 2018, 13:35:33) [MSC v.1900 64 bit (AMD6
4)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\AUG_DEC 2021\CN\LAB\cycle 3\ClientUDP.py ==========
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))
while 1:
print ("The server is ready to receive")
sentence, clientAddress = serverSocket.recvfrom(2048)
sentence = sentence.decode("utf-8")
file=open(sentence,"r")
l=file.read(2048)
serverSocket.sendto(bytes(l,"utf-8"),clientAddress)
print ('\nSent contents of ', end = ' ')
print (sentence)
# for i in sentence:
# print (str(i), end = '')
file.close()
>>>