UDP

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.

SOLUTION:

ClientUDP. py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
client Socket = socket (AF_INET, SOCK_DGRM

sentence = input ("\n Enter file name : ")

client Socket.send to ( bytes ( sentence, "utf-8",
        ( serverName, server Port ))

file contents, serverAddress = client Socket. recv
                                             (2048

print ('\n Reply from Server :\n')
print (filecontents. decode ("utf-8"))
#  for i in filecontents:
    #  print (str(i), end = ")
client Socket. close ()
Client Socket. close ()
```

ServerUDP.py

```python
from socket import *
ServerPort = 12000
serverSocket = socket (AF_INET, SOCK.DGRAM)
serverSocket.bind("127.0.0.1", serverPort))
print("The server is ready to recieve")
while 1:
    sentence, clientAddress = serverSocket.recvfrom

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

    serverSocket.sendto(bytes(con, "utf-8"),
                        clientAddress)

    print("\n Sent content of", end="")
    print(sentence)
    file.close()
```

SOLUTION:

Server side

The server is ready to recieve

Sent contents of server UDP.py
the server is ready to recieve.

Client side

Enter file name: ServerUDP.py

Reply from server:
from socket import *
:

(Code of serverUDP.py written above is printed)

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File Edit Shell Debug Options Window Help

```
Python 3.6.7 (v3.6.7:6ec5cf24b7, Oct 20 2018, 13:35:33) [MSC v.1900 6
4)] on win32
Type "help", "copyright", "credits" or "license()" for more informati
>>>
============= 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 (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()
```