LAB PROGRAM - 16

Q) 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.

Procedure:

```
Date: 24/08/23
  MTWTFSS
                        Experiment -16
     Arm: Using upe sockets, wante a client - server program to
     make client sending the file name and the some to send
     back the Contents of the suggested file if possesent.
     Solution:
    Client UDP. py
    forom socket imposit *
    server Name = "127.0.0.1"
    5000 = 1200 = 12000
   client Socket = Socket (AF _ INET , SOCK = DGRAM)
   sentence = input ("In Enter file name: ")
   client Socket . send to (bytes (sentence, "out-8"), (sower Name, sowerlant))
   file contents, somerAddress = clientSacket. decryforom (2048)
  ( 'n/: rowers march ylast n') fring
  posint ( file contents . decode ("UTF- g"))
  food : in file contents:
     porint (star(i), end: ())
 client Socket . close()
 client Socket closets
 SexuerUDP. py
form socket imposet *
server Bort = 12000
somer Socket = socket (AF_INET, SOCK_DGRAM)
somes locket . bind (("127.0.0.1", somes Port))
porint (" the some is sready to preceive")
while 1:
      Sentence, client Address = server Socket. recufrom (2048)
      sentence = , sentence. decode ("utf-8")
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	file = open (Sentence, "v")					
	(on = file. nead(2048)	es (con, "utf-8"), client Address)				
	some Socket . send to (byt	es (con) "Oct - o				
	parint ("In Sent Contents of", end = ")					
1.1	paint (content)					
1	fact ; in sentence:	(dala)				
1	parint (sha(i), end=")					
1	file. close()					
1						
	OUTPOT:					
		client Side				
	Server Side	000 El = 450 10000				
	110	Enter file name : ServerUDP. py				
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	The somer is seady to seceive forom socket impost *					
		Dones was blook I've beech from somes				
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1/50		is posinted) and is and				
		(or boy, (i) this (ii), end or)				
		(Cookle - closed)				
		Chent Jocket Lloyd				

Code:

ServerUDP.py

from socket import *

serverPort = 12000

serverSocket = socket(AF_INET, SOCK_DGRAM)

serverSocket.bind(("127.0.0.1",serverPort))

```
print("The server is read to recieve")
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("\n Sent contents of " , end= "")
    print(sentence)
    for i in sentence :
        print(str(i),end="")
    file.close()
```

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 servere:\n")
```

```
print(filecontents.decode("utf-8"))
for i in filecontents:
    print(str(i),end="")
clientSocket.close()
clientSocket.close()
```

Output:

Server Instance:

```
*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 (4)] on win32

Type "help", "copyright", "credits" or "license()" for more informati

>>>

The server is ready to receive

Sent contents of ServerUDP.py

The server is ready to receive
```

Client Instance:

```
X
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))
     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(1, "utf-8"), clientAddress)
     print ('\nSent contents of ', end = ' ')
    print (sentence)
# for i in sentence:
     # print (str(i), end = '')
file.close()|
```