Program 16

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 = 12000
clientSocket = socket(AF INET, SOCK DGRAM)
sentence = input("Enter file name")
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName, serverPort))
filecontents, serverAddress = clientSocket.recvfrom(2048)
print ('From Server:', filecontents)
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)
  file=open(sentence,"r")
  l=file.read(2048)
  serverSocket.sendto(bytes(1,"utf-8"),clientAddress)
  print("sent back to client",l)
  file.close()
Output
= RESTART: C:/Users/Dell/Desktop/5th sem/CN/LAB/ClientUDP.py
Enter file name: example.txt
From Server: b'Hello World!!'
                              Figure 87: Output of ClientUDP.py
= RESTART: C:/Users/Dell/Desktop/5th sem/CN/LAB/ServerUDP.py
The server is ready to receive
sent back to client Hello World!!
```

Figure 88: Output of ServerUDP.py

```
Experiment no 16:
  Using Upp soulcits, with a client - server program to
make client sending the file name and the server to send
back the contents of the requested file of present.
Cod!
· Client - Py
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 Jenus Port : 12000
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 clant socket. send to C bytes ( sentina, " utf-8"), ( servic Name,
              Sever Port ) )
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  printfl " From Servec: ", File contents)
  client societ. close ()
. Scover Py
  from socket import +
   Score 120+ = 12000
    server Socket = Socket (AF-INET, SOCK-DGRAM)
   server Socket bind ((127.0.0.1", server Port))
   point ( " The Scover is ready to receive ")
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          file = open (sentine, '7")
          data = fil. trad(2048) defa
           server Socket, and to ( buts (A, 'with-8') client Adde )
            printf [" sent bock to client! " i data )
     fite. college ()
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Figure 89: Observation Book

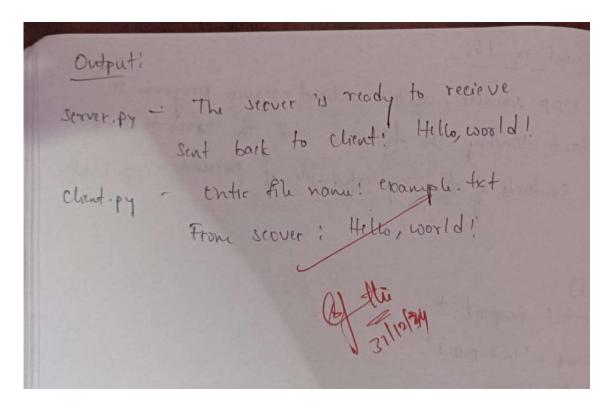


Figure 90: Observation Book