Title:

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.

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:

/Users/mac/PycharmProjects/cn-lab/venv/bin/python /Users/mac/PycharmProjects/cn-lab/ServerUDP.py The server is ready to receive

```
/Users/mac/PycharmProjects/cn-lab/venv/bin/python /Users/mac/PycharmProjects/cn-lab/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")
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()
```

```
/Users/mac/PycharmProjects/cn-lab/venv/bin/python /Users/mac/PycharmProjects/cn-lab/ServerUDP.py
The server is ready to receive
Sent contents of ServerUDP.py
```

Process finished with exit code 0