

OBSERVATION

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18/8/23 Using UDP socket, write a client-server program to make client sending the filename and the server to send back the contents of the requested file of client

Client Code

Client.py

```
from socket import *
serverName = "192.0.0.1"
serverPort = 8000
clientSocket = socket(AF_INET, SOCK_DGRAM)
filename = input("Enter file's name: ")

clientSocket.sendto(bytes(filename, "utf-8"), serverName,
serverPort)

filecontents, serverAddress = clientSocket.recvfrom(4096)
print("In Reply from Server: 1n")
print(filecontents.decode("utf-8"))
# for an en filecontents
# print (str(u), end = '\n')
clientSocket.close()
clientSocket.close()
```

Server.py

```
from socket import *
serverPort = 8000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("192.0.0.1", serverPort))
print("The server is ready to receive")
while 1:
```



```

sentence, client Address == serverSocket.recvfrom(8048)
sentence = sentence.decode("utf-8")
file = open(sentence, "r")
con = file.read(8048)

```

```

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

```

```

print("1st contents of", end = "\n")
print(sentence)
# for i in sentence
# print(str(i), end = "\n")
file.close()

```

~~Client.py~~ ~~Server.py~~
~~The client is ready.~~
~~Output~~

Server PP.py

The client is ready to receive
 sent contents of Server PP.py
 The server is ready to receive

Client VPP.py

Enter filename: Server VPP.py

Reply from Server:

[Contents of Server VPP.py]

OUTPUT

<pre>ClientUDP.py - C:/Users/sanja/OneDrive/Documents/ClientUDP.py (3.9.13) File Edit Format Run Options Window Help 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()</pre>	<pre>ServerUDP.py - C:/Users/sanja/OneDrive/Documents/ServerUDP.py (3.9.13) File Edit Format Run Options Window Help 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()</pre>
<pre>IDLE Shell 3.9.13 File Edit Shell Debug Options Window Help Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 b it (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ===== RESTART: C:/Users/sanja/OneDrive/Documents/ClientUDP.py ===== ===== Enter file name: ===== RESTART: C:/Users/sanja/OneDrive/Documents/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() >>></pre>	<pre>*IDLE Shell 3.9.13* File Edit Shell Debug Options Window Help Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 b it (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ===== RESTART: C:/Users/sanja/OneDrive/Documents/ServerUDP.py ===== ===== The server is ready to receive nSent contents of ServerUDP.py Ln: 30 Col: 4</pre>

