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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("\n Enter file name: ")
```

```
clientSocket.sendto(bytes(Sentence, "utf-8"),  
                    (ServerName, ServerPort))
```

```
fileContents, serverAddress = clientSocket.recvfrom(2048)
```

```
print("\n Reply 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)
```

for print("An send contents of ", end = " ")
 print(sentence)
 for i in sentence:
 print(chr(i), end = " ")
 file.close()

OUTPUT:

~~Server~~ Server side

The server is ready to receive

sent contents of serverUDP.py

The server is ready to receive

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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```
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"))
clientSocket.close()
```

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```
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)
    file.close()
```

= RESTART: C:/Users/Aditi/AppData/Local/Programs/Python/Python311/ServerUDP.py =
The server is ready to receive

Sent contents of ServerUDP.py

= RESTART: C:/Users/Aditi/AppData/Local/Programs/Python/Python311/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)
    file.close()
```