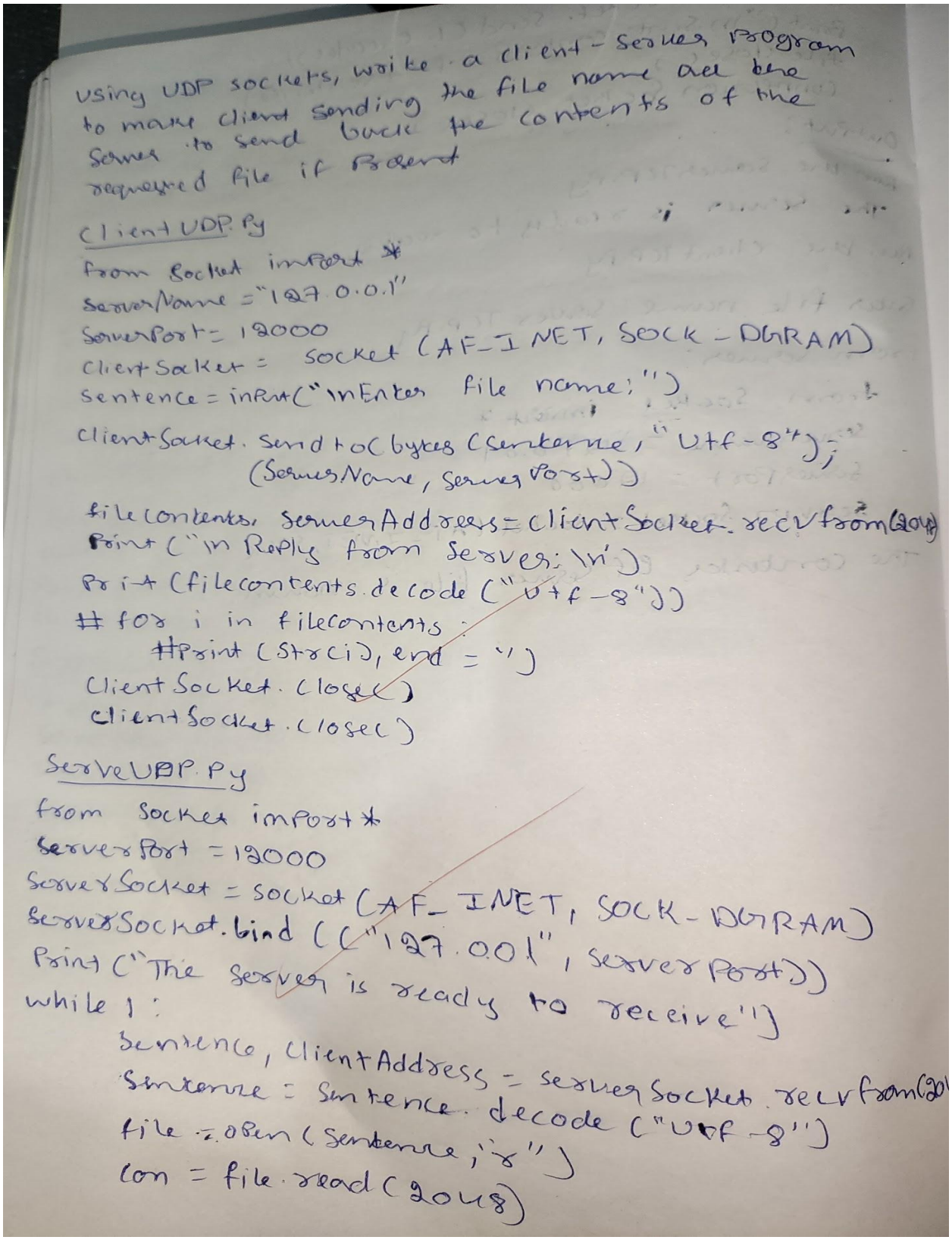
Using UDP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.



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("\nEnter 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()
```

ServeUDP.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(20
    sentence = sentence.decode("UTF-8")
    file = open(sentence, 'r')
    con = file.read(2048)
```

```
server.socket.sendto(bytes(con,"utf-8"),
                     clientAddress)
print('\n Sent contents of', end=' ')
print(sentance)
file.close()
```

Output :-

Run serverUDP.py

The server is ready to receive

Run clientUDP.py

Enter file name: serverUDP.py

Reply from server:

contents of serverUDP.py

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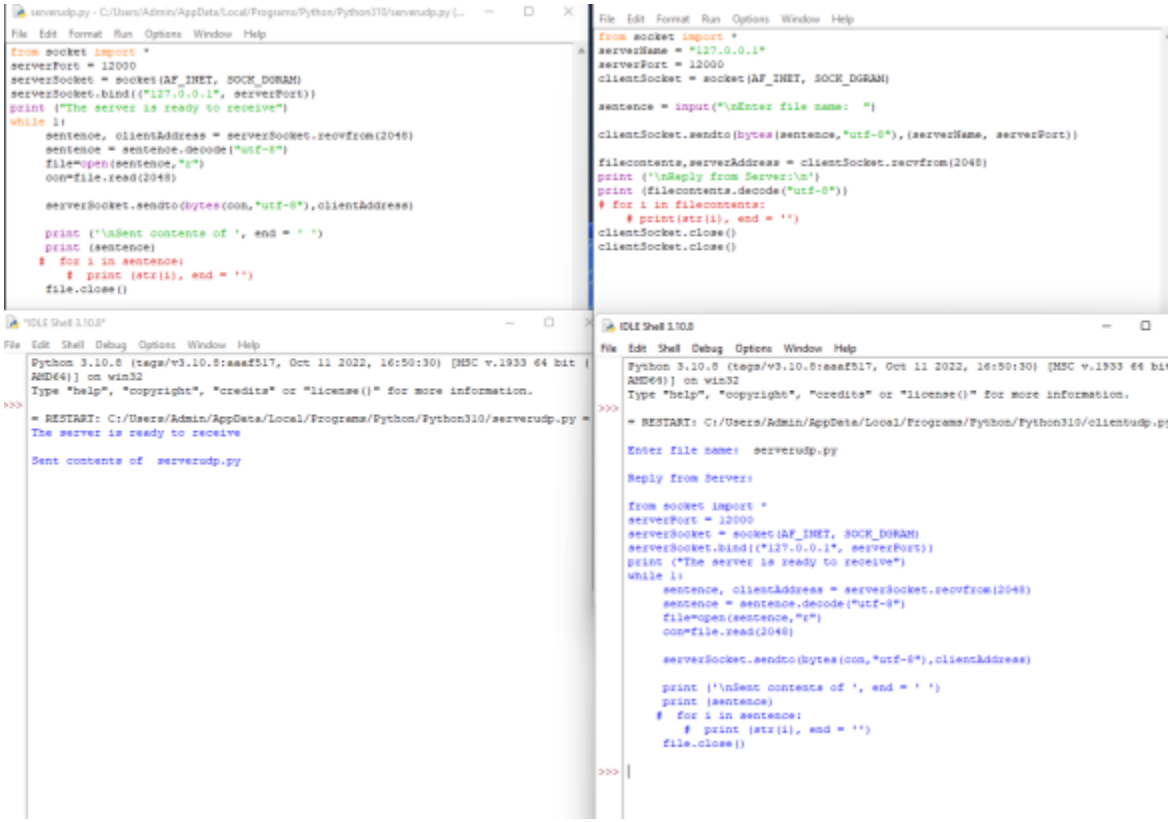
Output:



```
serverudp.py - C:/Users/Admin/AppData/Local/Programs/Python/Python310/serverudp.py (...
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()
```

```
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()
```

```
*IDLE Shell 3.10.8*
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python310/serverudp.py =
The server is ready to receive

Sent contents of  serverudp.py
```

```
IDLE Shell 3.10.8
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bi
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Admin/AppData/Local/Programs/Python/Python310/clientudp.p

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()

>>>
```