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Using TCP/IP 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.

clientTCP.py :

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET , SOCK_STREAM)
clientSocket.connect((serverName , serverPort))
sentence = input("\nEnter file name:")

clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print("\nFrom Server\n")
print(filecontents)
clientSocket.close()
```

serverTCP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
serverSocket = socket(AF_INET , SOCK_STREAM)
serverSocket.bind((serverName , serverPort))
serverSocket.listen(1)

while 1:
    print("The server is ready to recieve")
    connectionSocket,addr = serverSocket.accept()
    sentence = connectionSocket.recv(1024).decode()
```

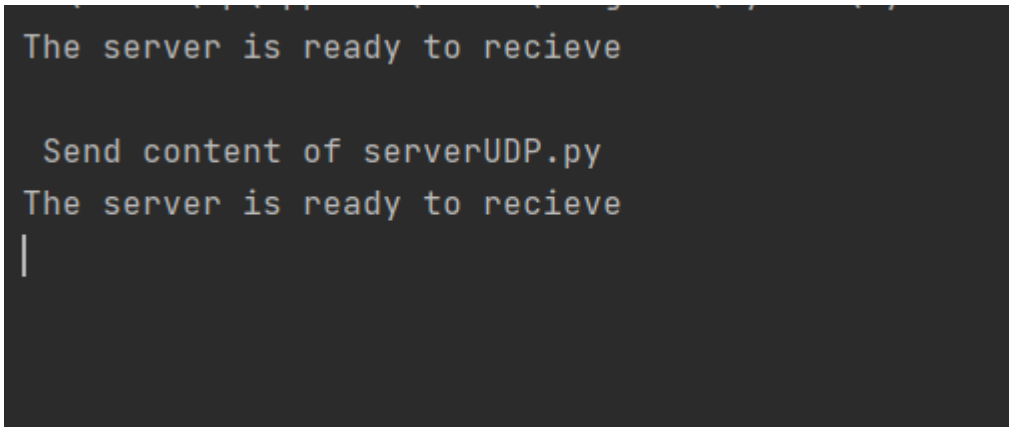
```
file=open(sentence , "r")
l = file.read(1024)

connectionSocket.send(l.encode())
print("\n Send content of "+sentence)


connectionSocket.close()
```

OUTPUT:

serverTCP.py



clienTCP.py

```
Enter file name:serverUDP.py

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 recieve")
while 1:
    sentence,clientAddress = serverSocket.recvfrom(20)
    sentence = sentence.decode("utf-8")
    file=open(sentence,'r')
    l=file.read(2048)

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

    print("\nSent content of " ,end=" ")
    print(sentence)
    file.close()

Process finished with exit code 0
```