

WEEK 15

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.

CODE:

ClientTCP.py

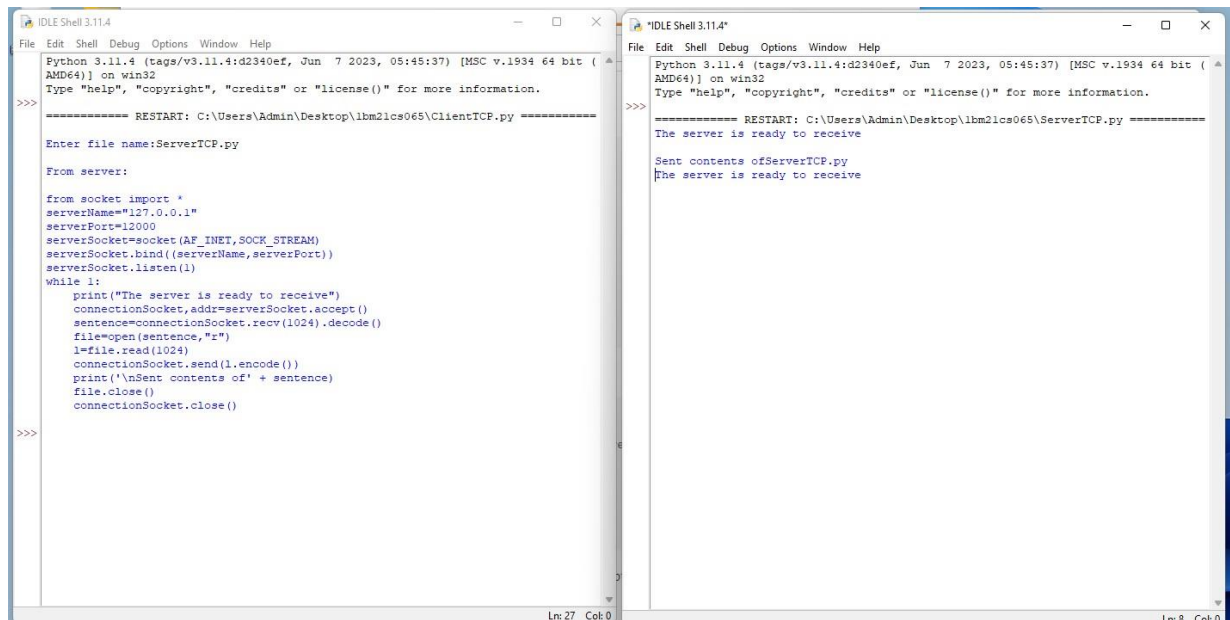
```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence = input("\nEnter file name: ")
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print ("\nFrom Server:\n")
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 receive")
    connectionSocket, addr = serverSocket.accept()
    sentence = connectionSocket.recv(1024).decode()
    file=open(sentence,"r")
    l=file.read(1024)
```

```
connectionSocket.send(l.encode())
print ("\nSent contents of " + sentence)
file.close()
connectionSocket.close()
```

OUTPUT:



```
Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Admin\Desktop\lhm2lcs065\ClientTCP.py =====
Enter file name:ServerTCP.py

From server:

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 receive")
    connectionSocket,addr=serverSocket.accept()
    sentence=connectionSocket.recv(1024).decode()
    file=open(sentence,"r")
    l=file.read(1024)
    connectionSocket.send(l.encode())
    print('\nSent contents of' + sentence)
    file.close()
    connectionSocket.close()
>>>
```

```
Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Admin\Desktop\lhm2lcs065\ServerTCP.py =====
The server is ready to receive

Sent contents ofServerTCP.py
The server is ready to receive
>>>
```

OBSERVATION:

Experiment - 15

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Aim: 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 requested file.

Code:

clientTCP.py

from socket import *

serverName = '127.0.0.1'

serverPort = 12000

clientSocket = socket(AF_INET, SOCK_STREAM)

clientSocket.connect((serverName, serverPort))

sentence = input("Enter File Name: ")

clientSocket.send(sentence.encode())

filecontents = clientSocket.recv(1024).decode()

print("I'm From Server: ", filecontents)

print("File contents: ")

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 receive")

connectionSocket, address = serverSocket.accept()

connection = connectionSocket.recv(1024).decode()

file = open(connection, "r")

l = file.read(1024)

```
connectionSocket.send (l.encode())
```

```
print ("Sent contents of ' + sentence +  
file.close())
```

```
connectionSocket.close()
```

Output:

server.py :

The server is ready to receive
Sent contents of server.py

client.py

Enter file name: server.py

Enter server

All contents of server.py are shown here