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:

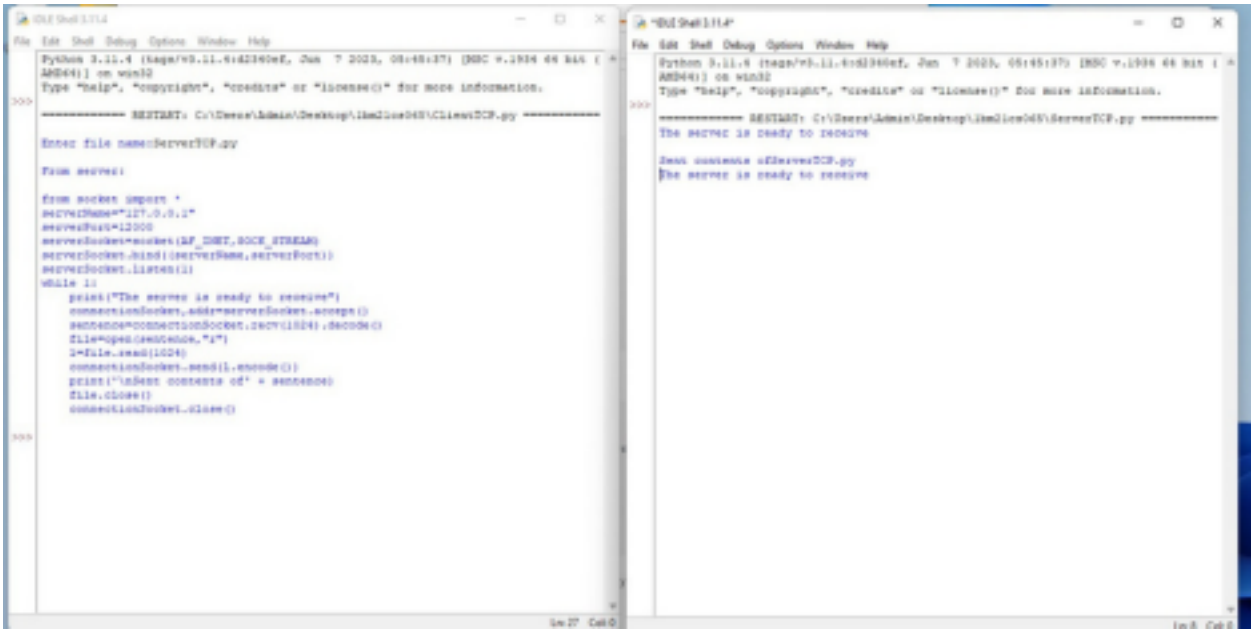
ClientTCP.py

```
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:



OBSERVATION:

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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.

Client Tcp.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 ("\nFromServer:\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:
```

```
file=open(sentence,"r")
l=file.read(1024)
connectionSocket.send(l.encode())
print("In Sent contents of"+Sentence)
        file.close()
        (connectionSocket.close()
```

Output

Server is ready to recieve

In client

Enter file name : Server TCP.py

final server details will come

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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.

Client UDP.py

```
from Socket import *
ServerName = "127.0.0.1"
Serverport = 12000
clientSocket = Socket(AF_INET, SOCK_DGRAM
```