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

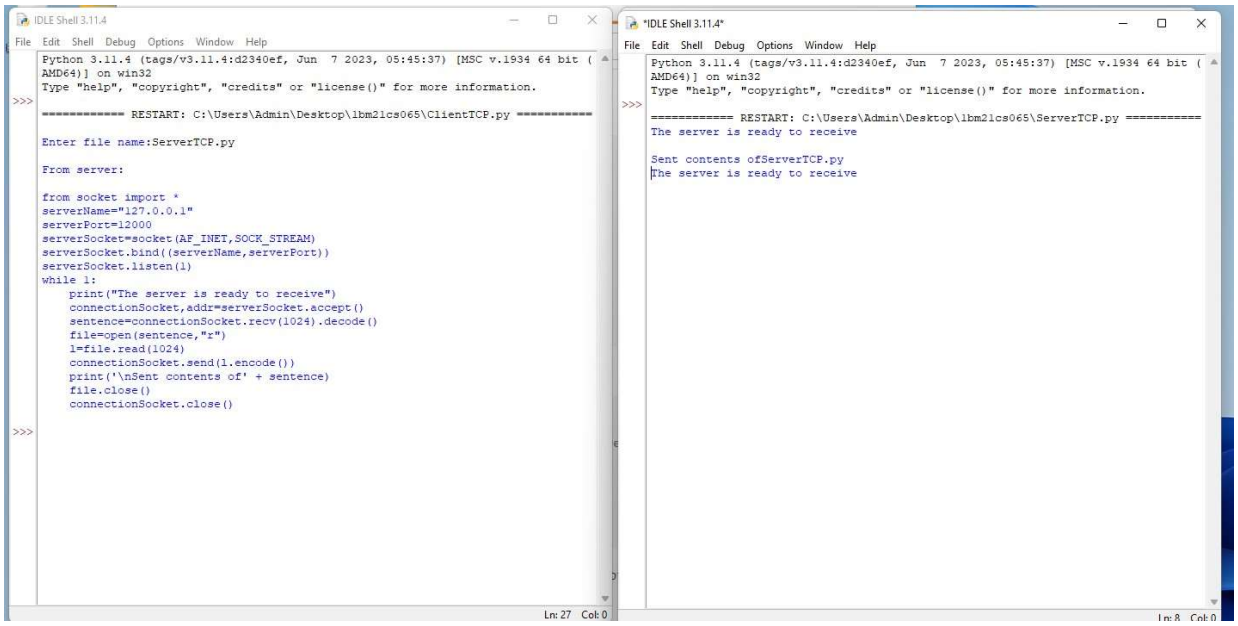
```
from socket import *
serverName = “127.0.0.1”
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence = input(“\nEnter file name: “)
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print (“\nFrom Server:\n”)
print(filecontents)
clientSocket.close()
```

ServerTCP.py

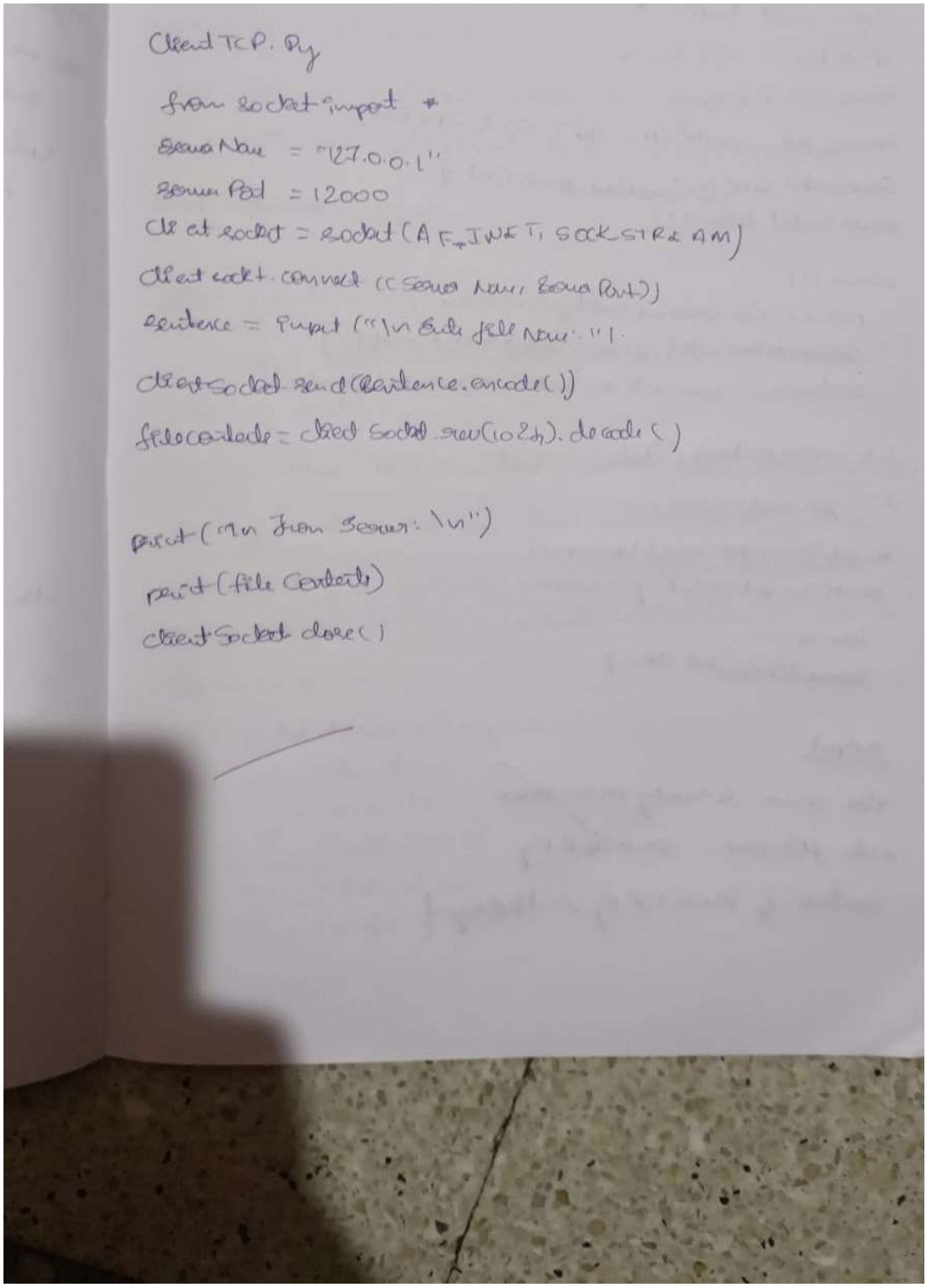
```
from socket import *
serverName=”127.0.0.1”
serverPort = 12000
serverSocket = socket(AF_INET,SOCK_STREAM)
serverSocket.bind((serverName,serverPort))
serverSocket.listen(1)
while 1:
print (“The server is ready to receive”)
connectionSocket, addr = serverSocket.accept()
sentence = connectionSocket.recv(1024).decode()
file=open(sentence,”r”)
l=file.read(1024)
```

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

OUTPUT:



OBSERVATION:



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("\n Enter file name: ")
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()

print("\n From Server: \n")
print(filecontents)
clientSocket.close()
```

Server TCP.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("\n Sent content of " + sentence)
    file.close()
    connectionSocket.close()
```

output

The server is ready to receive

Enter file name : Server_TCP.py

Contents of Server_TCP.py is displayed.