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

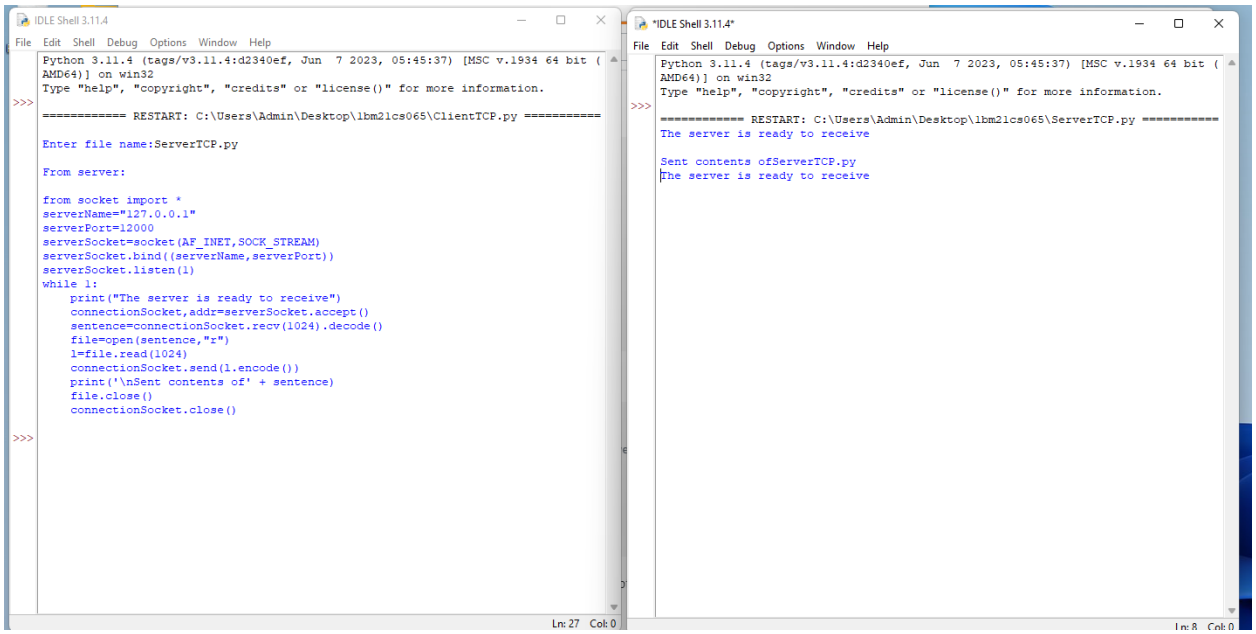
```
from socket import *
serverName = “127.0.0.1”
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence = input(“\nEnter file name: “)
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print (“\nFrom Server:\n”)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

ServerTCP.py

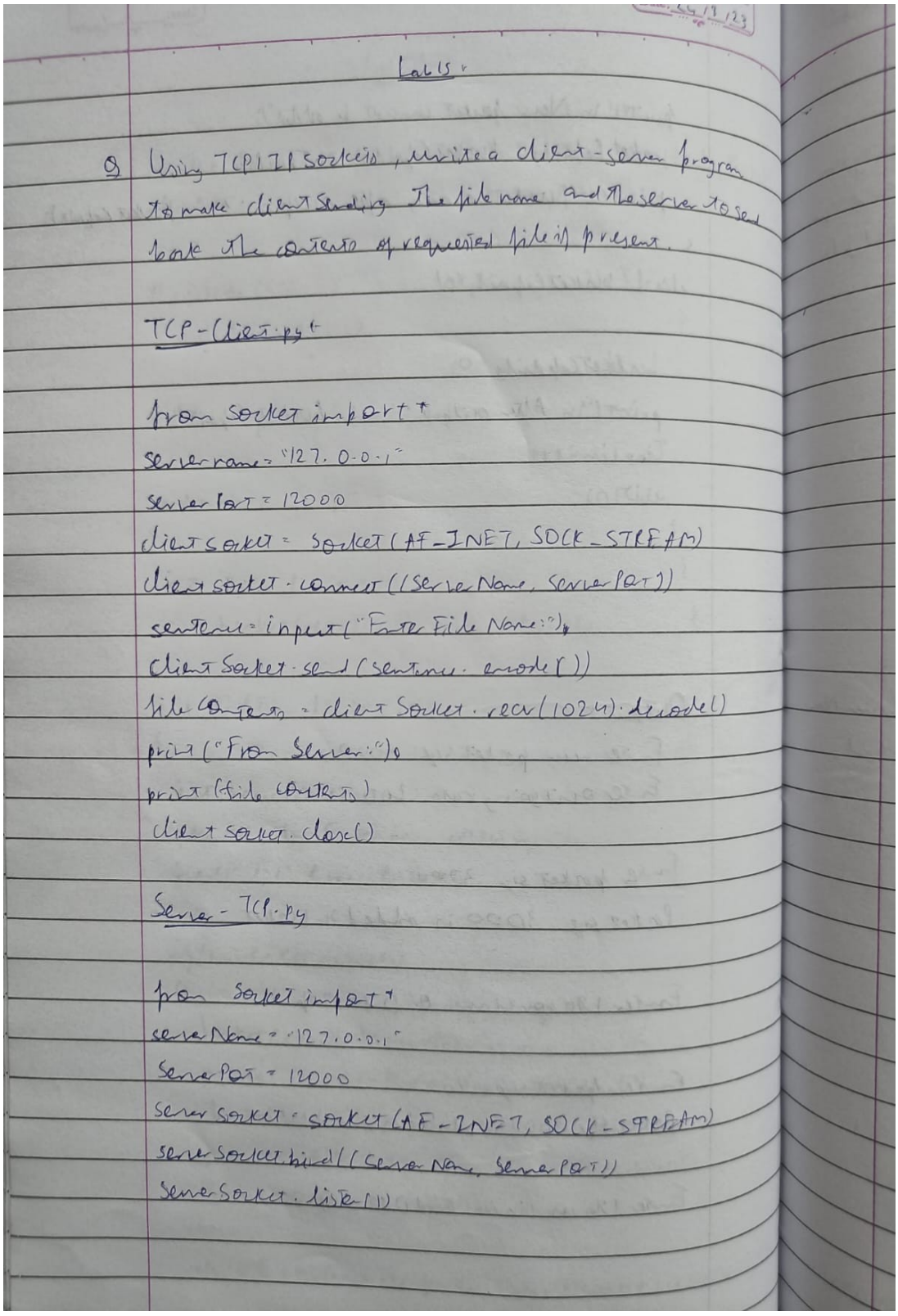
```
from socket import *
serverName=”127.0.0.1”
serverPort = 12000
serverSocket = socket(AF_INET,SOCK_STREAM)
serverSocket.bind((serverName,serverPort))
serverSocket.listen(1)
while 1:
print (“The server is ready to receive”)
connectionSocket, addr = serverSocket.accept()
sentence = connectionSocket.recv(1024).decode()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

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

OUTPUT:



OBSERVATION:



Lab 5:

Q) 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 if present.

TCP-Client.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("From Server:")
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("Sent", sentence)
file.close()
connectionSocket.close()

Output:

Client

Server TCP.py

From Server:

#include <stdio.h>
#include <stdlib.h>

int main()
{

printf("Hello");
return 0;
}

Server

Client TCP.py

The server is ready to receive
Sent contents of ./os-lab1/main.c
The server is ready to receive