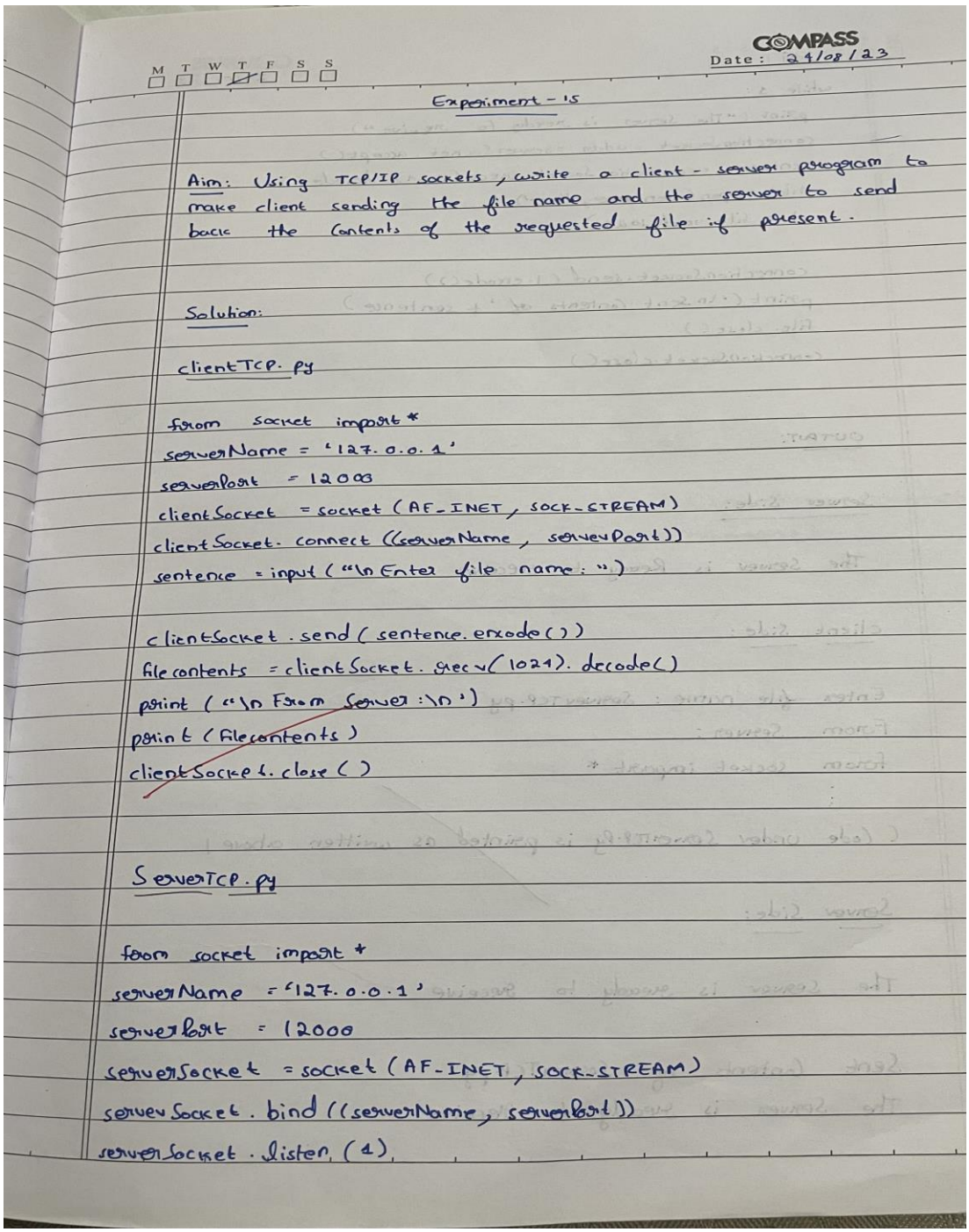
LAB PROGRAM – 15

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 the requested file if present.

Procedure :



Experiment - 15

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 the requested file if present.

Solution:

clientTCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12003
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
sentence = input("\n Enter file name: ")

clientSocket.send(sentence.encode())
fileContents = clientSocket.recv(1021).decode()
print("\n From 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)
```

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Date : 24/08/23

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```
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:

Server Side:

The Server is Ready to receive

client Side:

Enter file name : ServerTCP.py
From Server:
from socket import *
:

(Code under ServerTCP.py is printed as written above)

Server Side:

The Server is ready to receive

Sent Contents of ServerTCP.py
The Server is ready to receive

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()
```

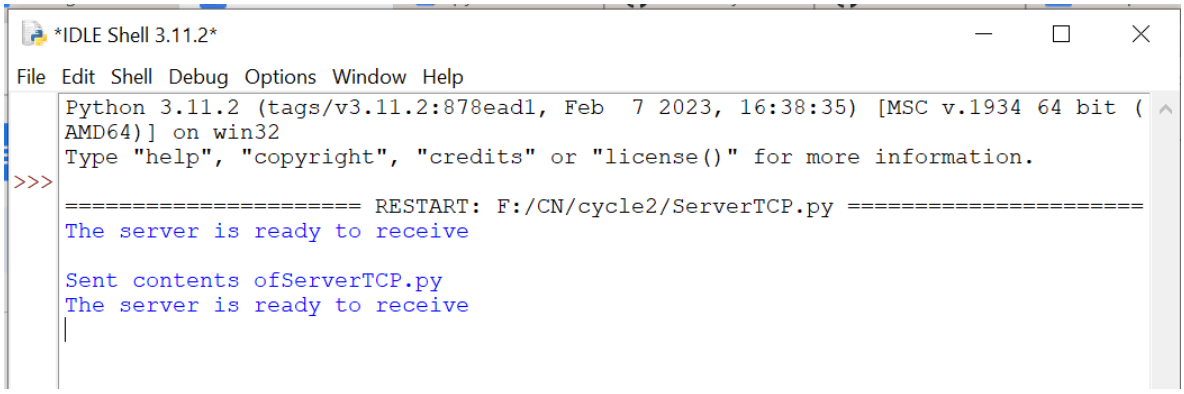
ServerTCP.py

```
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("Server is ready to recieve")
connectionSocket , address = 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 :

Server Instance :



Client Instance :