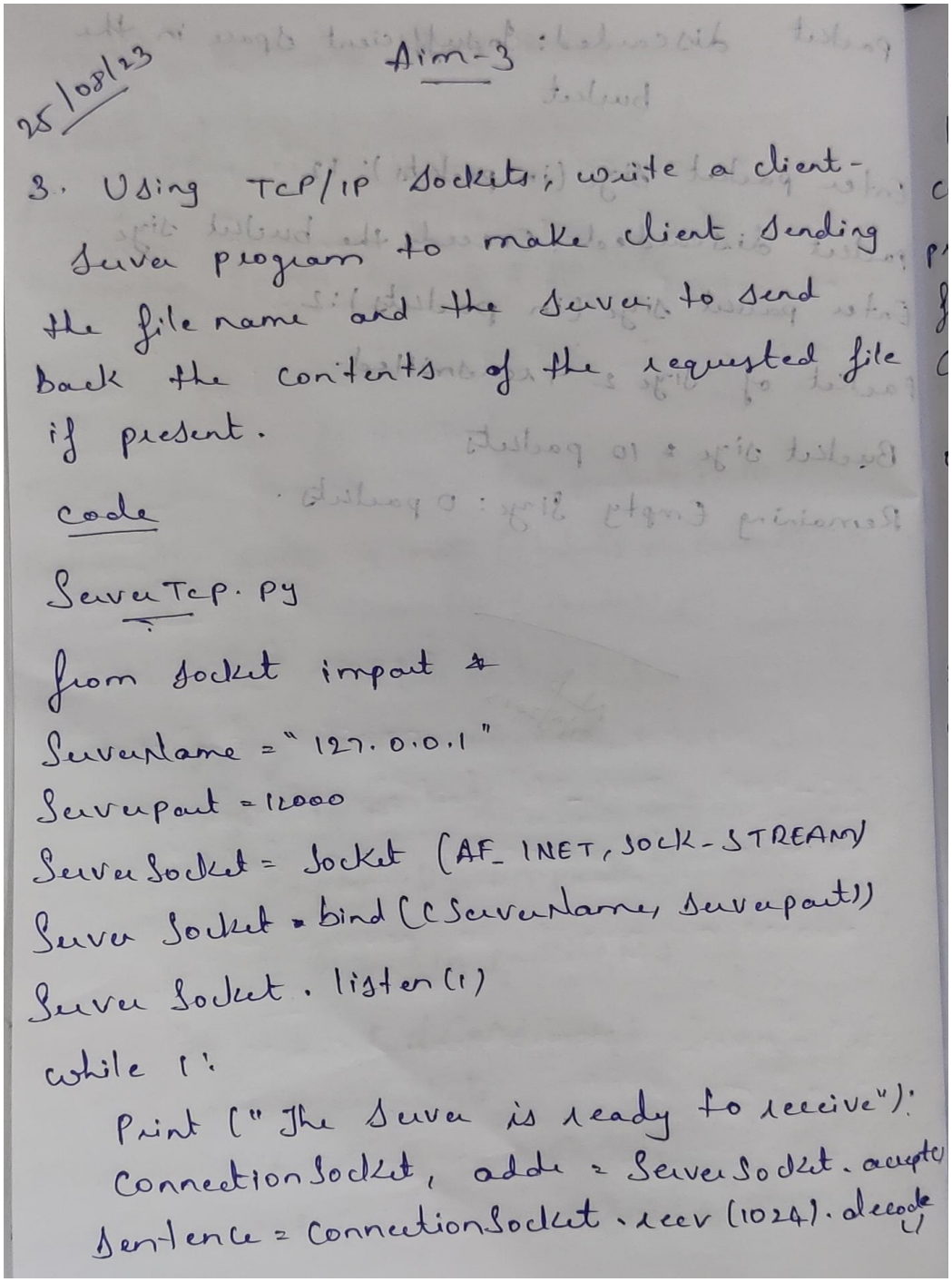
Aim-15

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:



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Aim-3

3. 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

ServerTcp.py

```
from socket import *
Servername = "127.0.0.1"
Serverport = 12000
ServerSocket = socket (AF_INET, SOCK_STREAM)
Server Socket = bind ((Servername, Serverport))
Server Socket . 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()
```

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 Serv:\n')
print(filecontents)
clientSocket.close()
```

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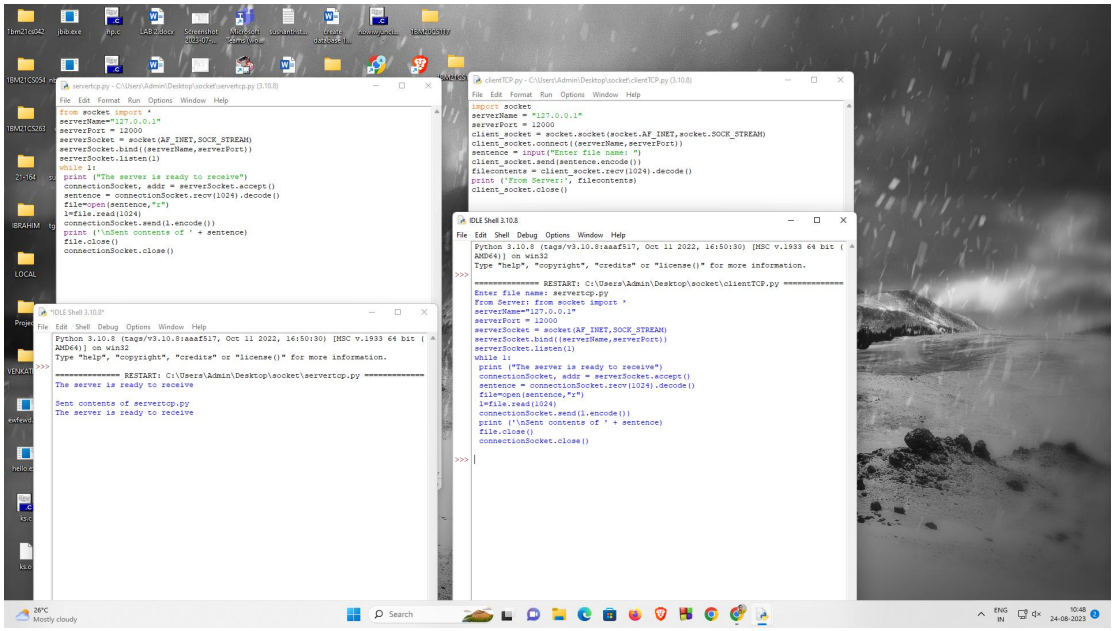
Output:


servertcp.py - C:\Users\Admin\Desktop\socket\servertcp.py (3.10.8)
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()
clientTCP.py - C:\Users\Admin\Desktop\socket\clientTCP.py (3.10.8)
import socket
serverName = "127.0.0.1"
serverPort = 12000
client_socket = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
client_socket.connect((serverName,serverPort))
sentence = input("Enter file name: ")
client_socket.send(sentence.encode())
filecontents = client_socket.recv(1024).decode()
print ('From Server:', filecontents)
client_socket.close()
IDLE Shell 3.10.8
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
========== RESTART: C:\Users\Admin\Desktop\socket\servertcp.py ==========
The server is ready to receive
Sent contents of servertcp.py
The server is ready to receive
IDLE Shell 3.10.8
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
========== RESTART: C:\Users\Admin\Desktop\socket\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()