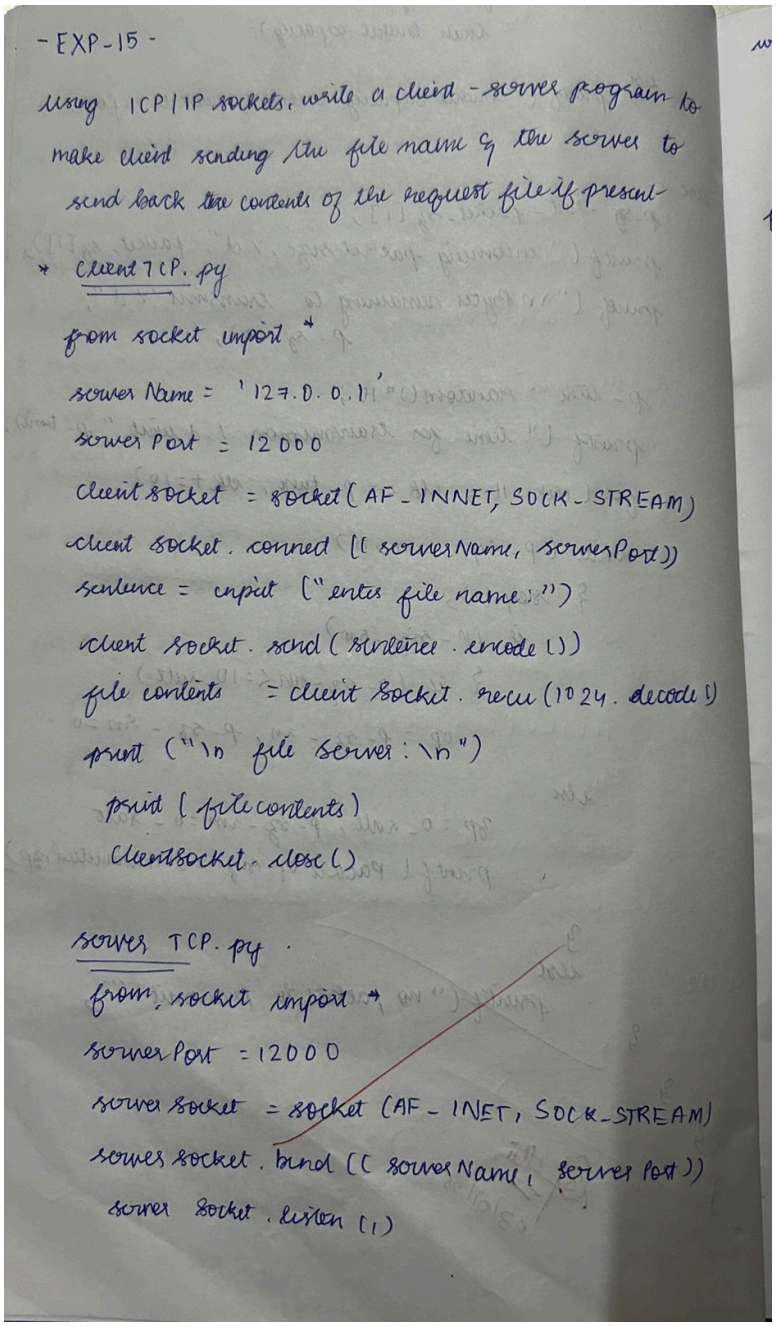
EXP-15

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.

Observation:



- EXP-15 -

Using TCP/IP sockets, write a client - server program to make client sending the file name & the server to send back the contents of the request file if present-

* Client TCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INNET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
sentence = input ("enter file name:")
clientSocket.send(sentence.encode())
fileContents = clientSocket.recv(1024.decode())
print ("In file Server: \n")
print (fileContents)
ClientSocket.close()
```

ServerTCP.py

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_STREAM)
serverSocket.bind((serverName, serverPort))
serverSocket.listen(1)
```

```
while 1 :
        print ("server ready to receive")
         connection . socket . add = serversocket . accept ( )
         sentence = connection socket . receive (1024) . decode .

file = open ( sentence, 'r').
  l = file . read (1024)
  connection socket . send ( l- encode ( ))
  print ("\n send contents of + sentence)
    file . close ( )
     connection socket . close ( ) .
```

OUTPUT :

the server is ready to receive
sent contents of server TCP. py
the server is ready to receive

enter file name : serverTCP. py .
Reply from server:

03/01/25

Servertcp.py

```
from socket import *
serverName="127.0.0.1"
serverPort = 14000
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

```
from socket import *
serverName = '127.0.0.1'
serverPort = 14000
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()
```

Output: