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 ICP/IP sockets, write a client - some program to
make client sending the file name of the source to
 send back the contents of the prequest file if present
 client 7 (P. py
 from socket import "
  sower Name = 127.0.0.11 = 1) maximum 3000
  somer Port = 12000
  client socket = socket (AF - INNET, SOCK - STREAM)
  client socket, conned [1 scriver Name, somer Port)]
  sentence = enput ("entes file name ")
  chert socket. sord (surlence encode ())
   gile contents = client Socket. recu (1024. decode)
   priet ("In file Server: In")
   pried (file contents)
  Chertsocket close ()
  sower TCP. py.
  from socket import +
   somer Post = 12000
   Source Socket = Socket (AF - INET, SOCK_STREAM)
   somes socket. Fund (( somes Name, serves fort))
     source socket listen (1)
```

while 1:

print ("somes neady to receive")

connection . socket . add = somessocket-accept()

surlence = connection socket . seceive (1024). decode .

file = open (surlence, 'n').

l = file sead (1024)

connection socket send (l-encode())

print ("'n send consents of surlence)

file close ()

connection socket close()

OUTPUT .

sent contents of somes TCP. py

the some is ready to receive

enter file marne: somesTCP. py

Repry from somes:

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## 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(1.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:

```
PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE PORTS SEARCH ERROR COMMENTS

(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> py Client.py
Enter file name: TCP.txt

From Server: This is a test file.

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.

(base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> py Client.py Enter file name: testfile.xt

From Server: File not found (base) PS D:\BMSCE\Fifth SEM CSE\CN\Lab - 15(24.12.24)> [
```