EXPERIMENT-14

TITLE: 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.

AIM: To demonstrate a TCP/IP sockets by writing a client-server program

Python Code:

ServerTCP.py

```python
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

```python
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()
```

OUTPUT:

```python
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')
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

PS D:\jyothika\CN> & C:/Users/Jyothika/AppData/Local/Programs/Python/Python311/python.exe d:/jyothika/CN/TCP/ServerTCP.py
The server is ready to receive

Sent contents of d:\jyothika\CN\TCP\ClientTCP.py
The server is ready to receive