LAB 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:

```
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 ("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(I.encode()) print ("\nSent
contents of " + sentence)
file.close()
connectionSocket.close()
```

OUTPUT:

```
Enter file name:ServerTCP.py

From server:

from socket import *
serverName="127.0.0.1"
serverSocket=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,"c")
l=file.read(1024)
connectionSocket.send(1.encode())
print('\nSent contents of' + sentence)
file.close()
connectionSocket.close()
```

The server is ready to receive Sent contents ofServerTCP.py The server is ready to receive

OBSERVATION:

OB2	ERVATION:
248	Using TCP/IX Sockets write a client; Server program to make client Sencing the file name and the Severa to send back the Content of the requested file if present.
7	Clien+TCP-Py
	Server Name = 127.0.0.1'
	client Socket = Socket (AFINET, Sock
	Client-Socket. connect ((ServerName, ServerPort)) Sentence > hypat ("m" Enter file name!")
	clientsocket, send (Sentence en code)) pile contents = Clientsocket, secv(1024). print (\n From Server: \n)
	print ((\n From Server . \n') print (file contents) Client Socket. close ()
7	Seques TCP. Py begom Socket luprit * Serus Name = 127.0.0.1.1

Page No. Server Port 2 12000 Server Socket = Socket (AF INET, Sock Some Socket billy ((server Name Com.)
Some Socket, Uster (1) while print. ("The source is Tready to serge connection Socket, add = Server Source a ccept () Senence = connection Specket recyllon file = open (Sentence, "3") 1= falle. read (1024) connection Socket, sence (). Encode) print (In Sant contents of '+ sentence) Jule (10801) connection Societ - 1208el) OP (clount stide Enter file name: Sex verTcP. 1y the contents of the file its druplay Server Side The sorver is ready to receive Sent contents of Call Too