LAB PROGRAM - 15

Q) 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.

Procedure:

	M T W T F S S Date: 24/0F/2
	Experiment - 15
	(a with an a) absent to (again an)
	Aim: Using TCP/IP sockets, write a client - soner program
	line sending the lile name and the
	back the Contents of the requested file if posesent.
	2 0 2 1 2000
	(Oshora I base same) daile
	Solution: Santan Andrews Santan Andrews Santan Sant
	client TCP. Py
	CHICKE 18
The second	forom socket imposit *
	Sequer Name = "127.0.0.1"
	sequentions = 12000
	client Socket = Socket (AF_INET, SOCK_STREAM)
	client Socket. connect ((conver Name, sone part))
	sentence = input ("In Enter file name: ")
	clientScret. send (sentence. exodo())
	file contents = client Socket. Sec v (1021). decode()
	point ("In Forom Some : In')
P	Mint (Filecontents)
	lient Socke L. close ()
	(ede under sometiles is nainted as maitten about
1	
1 -	severtce.py
	muer Side:
fo	on socket imposit *
(09)	werName = 127.0.0.1, grissel al plane 21 mores
11	wer lat = (2000
	versocket = socket (AF-INET, SOCK-STREAM)
sen	0.10
	ver Socket. bind ((serverName, serverBort))

	Date: 24/08/23
M T W T F S S	
000000	and the same of th
posion ("The Server is tready	to organie
posint ("The Server is tready connection Socket) adder = server	giecu (1021). decode ()
Tralance = Connec Hom	er enthal
file = open (sentence ;	grecy (1024). details
file = open (sentance, 4 + 2)	
connectionSocket.send (1.5	(d) realence)
paint (1) sent (entents of	6 + 10000
file. close()	Chent Top pu
(onrchiopSocket.close()	
(•NTCHOLOCKE	
	* Jenni sayar most
	September = "187-0.0 1"
OUTPUT:	180021 - HOPENERS
Server Side: (MARGER ADD)	client School = scount (AF INDT
11 Salar De 2 1 1	3/(1)% FEST R2230 3 13/2
The Commercia Ready to 0	Receive 19 (19 (19 (19 19)
The Squee 15 12 and	
	clientsocket send rentence enad
() decode ()	fle contents = client Sockets, siecal 10
Fator lile name : Somuer TCP	· py (· a/: town) most a/ ") fairly
	psint (Flesontents)
Forom Segmen:	clients one s. clase ()
forom socket imposit *	1 71013.67.67.67.67.67.67.67.67
((ode under somettely is	parinted as written above 1
C (bbe Onder Sendicing)	
	- Severtce. M
Somer Side:	
<u> </u>	t leave to a sel
	* disease imposite *
The Senver is gready to	Secret 1 0.0 + FELT - amily round
	semplat = (2000
Sent Contents of Server	TCP. py - TA) tener I smallsungs
THE SERVEY IS TREASY TO	Deceive Manager Doid . James 1949)

Was a state of the state of the

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("Server is ready to recieve")
connectionSocket , address = 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()
```

Output:

Server Instance:

Client Instance:

```
Pipe IDLE Shell 3.11.2
File Edit Shell Debug Options Window Help
   Python 3.11.2 (tags/v3.11.2:878ead1, Feb 7 2023, 16:38:35) [MSC v.1934 64 bit (
   AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
   Enter the file name: ServerTCP.py
   From sever:
   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(1.encode())
       print('\nSent contents of'+sentence)
       file.close()
       connectionSocket.close()
>>>
```