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Experiment-3

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 requested file if present.

ClientTCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
sentence = input("\n Enter File Name:")

clientSocket.send(sentence.encode())
fileContents = clientSocket.recv(1024).decode()
print("\n From Server:")
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 = connectSocket.recv(1024).decode
    file = open(sentence, "r")
    l = file.read(1024)
    connectionSocket.send(l.encode())
    print("Sent contents" + sentence)
```

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Output :-

* when you run ServerTCP.py

The server is ready to recieve.

* when you run clientTCP.py
Enter file name : ServerTCP.py
From Server:
(The files from ServerTCP.py will be copied & displayed here.)

* In ServerTCP.py
The server is ready to recieve
Sent contents of ServerTCP.py
The server is ready to receive