Experiment 15

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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(l.encode())
      print ('\nSent contents of ' + sentence)
      file.close()
      connectionSocket.close()
```

Output:

```
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from socket import *
serverName="127.0.0.1"
serverNort = 12000
serverSocket.intent()
serve
```