EXPERIMENT - 12

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Using TCP/IP sockets, write a client-server ~~app~~ program to make client sending the file name and the server to send back the contents of the requested file if present.

Client :

```
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()
```

Server :

```
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 recieve")
connectionSocket, addr = sdriverSocket.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 :

The server is ready to receive contents of server TCP.py

```
Enter file name :- Server TCP.py
From Server :
from socket import *
  serverName = '127.0.0.1'
  serverPort = 12000
connectionSocket.send(l.encode())
  file.close()
  connection socket.close()
```