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## Socket (TCP/IP)

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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.

### Client TCP.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()
```

### Server TCP.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("\n Send contents of " + sentence)
    file.close()
    connectionSocket.close()

```

O/P

Server TCP

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

Client TCP

Enter file name: Server TCP.py

From 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("Enter 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("\n Sent contents of ' + sentence)

file.close()

connectionSocket.close()

>>>