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Lab 15

Aim:-

Using TCP/IP ~~and~~ sockets, Write a client server program to make client sending the file name and server to send back the contents

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 ("Enter file name");
MontSocket.send (Sentence.encode())
filecontents = clientSocket.recv (1024).decode()
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:
pf ("The server is ready to receive
connectionSocket, addr = SouverSocket.accept()
sentence = connectionSocket.recv (1024).decode()
file = open (sentence, "r")
l = file.read (1024)
```

connectionSocket.send(l.encode())
print("In Sent contents of:' + sentence)
file.close()
connectionSocket.close()

Output:-

ServerTCP.py
The server is ready to receive

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

ClientTCP.py
Enter file name: ServerTCP.py

from server
from socket import *
ServerName = "127.0.0.1"
ServerPort = 12000
ServerSocket.bind((ServerName, ServerPort))
Server.Socket.listen(1)
while 1
print("The server is ready to receive
sentence = ConnectionSocket.recv(1024)
file = open("Sentence", "r")
R = file.read(1024)
ConnectionSocket.send(l.encode())
print("Sent contents of" + sentence)
file.close()
ConnectionSocket.close()

```
Enter file name:ServerTCP.py

========== RESTART: C:/Users/sanja/OneDrive/Documents/ClientTCP.py =========

Enter file name:ServerTCP.py

========== RESTART: C:/Users/sanja/OneDrive/Documents/ClientTCP.py =========

Enter file name:
========== RESTART: C:/Users/sanja/OneDrive/Documents/ClientTCP.py =========

Enter file name:ServerTCP.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("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()
```

```
========== RESTART: C:/Users/sanja/OneDrive/Documents/ServerTCP.py
===
The server is ready to receive
The server is ready to receive
The server is ready to receive

========== RESTART: C:/Users/sanja/OneDrive/Documents/ServerTCP.py =======
===
The server is ready to receive

Sent contents of ServerTCP.py
The server is ready to receive
```