CN LAB CYCLE 2 Mallika Prasad 1BM19CS081

PROGRAM 5

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

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")
 I=file.read(1024)
 connectionSocket.send(l.encode())
 print ('\nSent contents of'+ sentence)
 file.close()
 connectionSocket.close()
```

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()
```

OUTPUT

```
from socket import *
serverName='127.0.0.1'
serverPort = 12000
serverSocket = socket(AF_INET,SOCK_STREAM)
serverSocket.bind((serverName,serverPort))
serverSocket.listen(1)
                                                                                                                                                                                                                               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: ")
    hite 1:
print ("The server is ready to receive")
connectionSocket, addr = serverSocket.accept()
sentence = connectionSocket.recv(1024).decode()
                                                                                                                                                                                                                              clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print ('\nFrom Server:\n')
print(filecontents)
clientSocket.close()
      file=open(sentence,"r")
l=file.read(1024)
     connectionSocket.send(l.encode())
print ('\nSent contents of'+ sentence)
file.close()
connectionSocket.close()
                                                                                                                                                                                                                                                                                                                      IDLE Shell 3.10.1
          Python 3.10.1 (v3.10.1:2cd268a3a9, Dec 6 2021, 14:28:59) [Clang 13.0.0 (clang-1 300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                                                                          Python 3.10.1 (v3.10.1:2cd268a3a9, Dec 6 2021, 14:28:59) [Clang 13.0.0 (clang-300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
          ========= RESTART: /Users/mallikaprasad/Desktop/LAB/CN/serverTCP.py == The server is ready to receive
                                                                                                                                                                                                                                            ======= RESTART: /Users/mallikaprasad/Desktop/LAB/CN/clientTCP.py =======
                                                                                                                                                                                                                                          Enter file name: serverTCP.py
          Sent contents ofserverTCP.py
The server is ready to receive
                                                                                                                                                                                                                                           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()
```