CYCLE-3

1. V sing TCPIIP sockets, write a chient name program to make client sending the file name & server to send back the contacts of neguerted fite 4 present.

- ClintTCP, py from socket import * Server Name = 1/27, 0.0.1 Scrue Port 2 12000 Client Socket = Socket (Af - INET = SOCK - STREAM) Client Socket, connect ((SeenerName, Server gort)) Sentence = input ("In Entre file name:") Client Socket. Send (sentence, encodel)) file contents . (Print Socket. secv (1024) . decodel) print ("In Frame some: (n') print (file contents) Client Sockets. Close 1)

Server TCP. Py from socket import * Sauce Name = 12 7.0.0.1 Suna Porl - = 12000 Somusocket & Socket (At_INET, SOCK-STREAM) Server Socket, Buid (18 esner Name, Some port)) Surersocket, add = Surasocket. accept 1) Sentonce 2 connection Socket, rico (1014), duodel) file 2 open (sendence, " 21) 12 fle Alad 11024) connection socket Sent (1. en cock 1)) print ('In sent contents of '+ Sentenu)

Connection Socket, Close ()

file. Close 1)

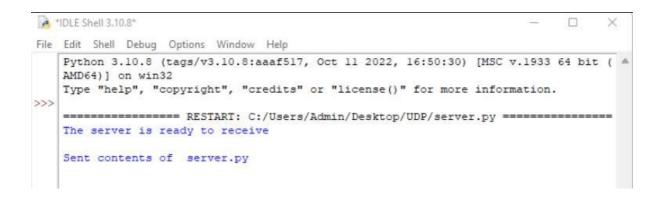
Output: DTCP/IP socket

Run the file serves py 0/p=> The server is ready to recieve This shows that our server is ready

Client: Run the file count.py Op=> Enter file name: source py

Server: The summer ready to receive Sent contents of some py The summer is ready to receive

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IDLE Shell 3.10.8
                                                                      File Edit Shell Debug Options Window Help
   Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
   AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
   Enter file name: Server.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(1.encode())
      print ('\nSent contents of ' + sentence)
       file.close()
       connectionSocket.close()
>>>
```



2) Veing VDP Sockets, write a west-serve program to make chient rending the file name & serum to rend back the contents of naquested file if present. - Chint VDP. Py from socket import & Sure: Name 2"127,0.0,1" Server Port = 12000 Client specket 2 Socket (AF_INET; SOCK_DG RAN) Sentence = input ("In Enter file name:") Chient Socket, Send to Chytis Contine, " U+f -8"), (Secure Name file contents, Server Address 2 Cifent Socket. reev fran (2041) Some Port) print ("In riply from sure: In') Print (file contents. decode ("VH -8")) # for i'm file contents: # print (styli); end = ") Client Socket. Close () Churt Socket . Closel) 1,5187 phy 18101 Server UDP. . py from Socket import . Scruer Part 2 12000 S usuas socket - Sockel (AC - INET, SOCK- DGRAM) Series Socket. Pind ("127.0.0.1", Series Port)) Print 1"The sense is ready to recient") Sentence, Client Adoless - Server Socket. Rocupon(2093) Soutence . 2 Sentence . deode ("VH-8") (ile = Open(sentence, "2") con = file. read (2044) Server socket. Sand to (bytes (con, "lity-on), liend Address)

print (Msend contents of end = 1)

print (sentena) file. Close 1) Output 2) UDP søckett OIP = Enter file name: Somer Dor.py Reply from serves:

Server: The server is ready to recione

Sent contents of sever UPP. py

```
File Edit Shell Debug Options Window Help
    Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ========= RESTART: C:/Users/Admin/Desktop/UDP/client.py =========
    Enter file name: server.py
    Reply from Server:
    from socket import *
    serverPort = 12000
    serverSocket = socket (AF_INET, SOCK_DGRAM)
    serverSocket.bind(("127.0.0.1", serverPort))
    print ("The server is ready to receive")
    while 1:
        sentence, clientAddress = serverSocket.recvfrom(2048)
        sentence = sentence.decode("utf-8")
        file=open(sentence, "r")
        con=file.read(2048)
        serverSocket.sendto(bytes(con, "utf-8"), clientAddress)
        print ('\nSent contents of ', end = ' ')
         print (sentence)
        # for i in sentence:
           # print (str(i), end = '')
         file.close()
>>>
*IDLE Shell 3.10.8*
File Edit Shell Debug Options Window Help
    Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ======= RESTART: C:/Users/Admin/Desktop/Server.py ==========
    The server is ready to receive
    Sent contents of Server.py
    The server is ready to receive
```