- to send back the contents of the requested file if pre

1. Using TCP/IP sockets, write a client-server program to make client sending the file name & the server

Solution

Client TCP.py

```
from socket import *
server Name = '127.0.0.1'
server Port = 12000
clientsocket = Socket (AF_INET , SOCK_STREAM)
Clientsocket.connect((server Name , server Port))
sentence = input ("\n enter file Name");

Clientsocket.send (sentence.encode())
filecontents = client Socket. recv(1024).decode()
Print ("\n From server:\n")
Print (filecontents)
Client socket.close()
```

Server TCP.py

```
from socket import*
serverName = "127.0.0.1"
ServerPort = 12000
serverSocket = socket (AF_INET, SOCK_STREAM)
Server Socket.bind ((server Name, serverPort))
serverSocket.listen(1)
while 1:
        Print ("The server is ready to recieve")
        connection socket, addr = serversocket.accept()
        sentence = connectionSocket.recv(1024).decode()
        file = open (sentence, "r")
        l = file.read(1024)
        connection socket.send (l.encode())
        Print ("\nSent contents of' + sentence)
        file.close()
        connectionSocket.cl
```

Output

```
= Restart: c: /Users/ Admin /AppData /Local /Programs /
  Python / Python310 /server -tcp.py
The Server is ready to recieve.
Sent contents of server - tcp.py
The server is ready to recieve.

=Restart: c:/Users/Admin /AppData /Local /Programs)
Python / Python 310/ client - tcp.py .
Enter file name : server -tcp.py .
 from socket import *
  Server Name = "127.0.0.1"
  server Port  = 12000
  Server Socket = socket (AF-INET, SOCK - STREAM)
```

>Contents sent by the server displayed here.