### **Program 3:**

Question:

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.

```
(3) Using TIP/IP sockets, write a client-server
 program to make client sending the fire name and
   the server to send back the contents of the
  requested file of present ...
             is not all ( bit in "W" to be in
  topolient.py
 from socket suport +
  serverName = 127 0.0.1 8000 ) no file
  8emer Port = 14000
  Client socket = socket (AF . INET, SOCK_STREAM)
  client socket. connect ( (server Name, server Port ))
  sentence = input ("In Enter file name: ")
  dientsocket-send (sentence encode())
  file contents = client socket recv(1024) . decode ()
  point ('In From servez: In')
  point (filecontents)
  client socket, close()
 tepsemer . p.y 1 00001: amortisad bompood on
from socket import * me most ded bollman
  Servier Name = 1127.0.0.1"
  server Port = 14000
  server 8 ocket = socket (AF-INET, SOCK_STREAM)
  Senur Socket. bond ((server Name, server Port))
 server socket. (Isten (1)
 While 1:
      print ( "The server is ready to receive")
      connectionsocket, addr = server socket. accept ()
      sentence = connectionsocket. recv (1024). decode()
      file = open (sentence, "7")
      l= file. read (1024)
     connectionSocket send (1. encode ())
     point ( 'In sent contents of 1 + sentence)
```

```
fle close ()

connections octet close ()

OUTPUT: -

The server is ready to receive 3

sent contents of somertic py

The server is ready to receive

Enter file name: tepsesner. py

Fuply from server
```

#### Code:

# tcpserver.py file:

```
from socket import *
serverName="127.0.0.1"
serverPort = 14000
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()
```

## tcpclient.py file:

```
from socket import *
serverName = '127.0.0.1'
serverPort = 14000
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:

```
PS C:\Users\Dell\OneDrive\Desktop\code> python tcpserver.py
The server is ready to receive

Sent contents of example.txt
The server is ready to receive

PS C:\Users\Dell\OneDrive\Desktop\code> python tcpclient.py

Enter file name: example.txt

From Server:

Hello, this is a sample file.
It is used for testing the TCP server.
```