

Program 5: 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.

Server.py

```
from socket import *

serverName = "LAPTOP-HEQFHJCV"

serverPort = 12530

serverSocket = socket(AF_INET,SOCK_STREAM)

serverSocket.bind((serverName,serverPort))

serverSocket.listen(1)

while 1:

    print("Server is ready!")

    connectionSocket,addr = serverSocket.accept()

    sentence = connectionSocket.recv(1024).decode()

    file = open(sentence,"r")

    l = file.read(1024)

    connectionSocket.send(l.encode())

    file.close()

    connectionSocket.close()
```

client.py

```
from socket import *

serverName = "LAPTOP-HEQFHJCV"

serverPort = 12530

clientSocket = socket(AF_INET,SOCK_STREAM)

clientSocket.connect((serverName,serverPort))

sentence = input("Enter the file name:")

clientSocket.send(sentence.encode())

filecontents = clientSocket.recv(1024).decode()

print("From Server!!")

print(filecontents)

clientSocket.close()
```

Output :

```
PS C:\Users\yathri\Desktop> c:: cd 'c:\Users\yathri\Desktop'; & 'c:\Users\yathri\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\yathri\.vscode\extensions\ms-python.python-2022.20.2\pythonFiles\lib\python\debugpy\adapter\..\debugpy\launcher' '65405' '--' 'c:\Users\yathri\Desktop\server_tcp.py'  
Server is ready!
```

```
PS C:\Users\yathri\Desktop> c:: cd 'c:\Users\yathri\Desktop'; & 'c:\Users\yathri\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\yathri\.vscode\extensions\ms-python.python-2022.20.2\pythonFiles\lib\python\debugpy\adapter\..\debugpy\launcher' '65382' '--' 'c:\Users\yathri\Desktop\client_tcp.py'  
Enter the file name:demo.txt  
From Server!!  
hi  
hello  
welcome  
to  
bmsce
```