

Program 16

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

Code and Output:

(Q) Q16: Implementation of TCP/IP:

(i) Code

Client.py

```
from socket import *
ServerName = "127.0.0.1"
ServerPort = 12000

ClientSocket = socket(AF_INET, SOCK_STREAM)
ClientSocket.connect((ServerName, ServerPort))
Sentence = input("Enter the name ")
ClientSocket.send(Sentence.encode())
file_contents = (ClientSocket.recv(1024)).decode()
print("from server", file_contents)
ClientSocket.close()
```

Server.py

```
from socket import *
ServerName = "127.0.0.1"
ServerPort = 12000
ServerSocket = socket(AF_INET, SOCK_STREAM)
ServerSocket.bind((ServerName, ServerPort))
ServerSocket.listen(1)
print("The server is ready to receive")

while 1:
    connection_socket, addr = ServerSocket.accept()
    sentence = connection_socket.recv(1024).decode()
    file = open(sentence, "r")
    data = file.read(1024)
    connection_socket.send(data.encode())
```

file.close()

connectionSocket.close()

(#) Output

Server side -

server is ready to receive

Client side -

Enter file Name : hello.txt
from server : Hello World