

Date ___/___/___

- ii) using TCP/IP & UDP Sockets, write a client Server Program to make client sending the file name & the server to send back the contents of the requested file if present.

TCP / IP :
Server Program

from socket import *

Server Name = '2422'

Server Port = 1200

Server Socket = socket(AF_INET, SOCK_STREAM)

Server Socket.bind((Server Name, Server Port))

Server Socket.listen(1)

Print("The Server is ready to receive")

while 1:

connection Socket, addr = Server Socket.accept()

Sentence = connection Socket.recv(1024).decode()

file = open(Sentence, "r")

l = file.read(1024)

connection Socket.send(l.encode())

file.close()

connection Socket.close()

Date ____ / ____ / ____

Client Program

from socket import *

Server Name = '2422'

Server Port = 12001

clientSocket = socket(AF_INET,
socket.SOCK_STREAM)clientSocket.connect((Server Name,
Server Port))

Sentence = input("Enter file name")

clientSocket.send(Sentence.encode())

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

Print("From Server: ", fileContents)

clientSocket.close()

UDP Program :-

Server Program :-

```
from socket import *
ServerPort = 12000
ServerSocket = socket(AF_INET, SOCK_STREAM)
ServerSocket.bind(("127.0.0.1", ServerPort))
print("The Server is ready to receive")
while 1:
    Sentence, ClientAddress = ServerSocket.recvfrom(
        2048)
    file = open(Sentence, "x")
    l = file.read(2048)
    ServerSocket.sendto(bytes(l, "utf-8"),
        ClientAddress)
    print("Sent back to client", l)
file.close()
```


Date ___/___/___

Client Program :-

from socket import *

ServerName = "127.0.0.1"

ServerPort = 12000

clientSocket = socket(AF_INET, SOCK_DGRAM)

Sentence = input("Enter file name")

clientSocket.sendto(bytes(Sentence, "utf-8"),
(ServerName, ServerPort))

fileContents, ServerAddress = clientSocket.recvfrom(2048)

Print("From Server:", fileContents)

clientSocket.close()