Date 1/1/25
Page

15 Using TCP/IP 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

* client TCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
sentence = input("\n Enter file name:")
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print("\n File Server: \n")
print(filecontents)
clientSocket.close()
```

Server TCP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
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")
```

inside while loop

Date
Page

inside while loop

```
l = file.read(1024)
connectionSocket.send(l.encode())
print("We Sent contents of" + sentence)
file.close()
connectionSocket.close()
```

o/p:

```
The server is ready to receive
Sent contents of server TCP.py
The server is ready to receive.
```

} Server Side

```
Enter file name: server TCP.py
Reply from server:
```

} client side