

Cycle 2

01/30/2023

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

Sol.1 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 From 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("Server is ready to receive")
    connectionSocket, addr = serverSocket.accept()
```



```

sentence = connectionSocket.recv(1024).decode()
file = open(sentence, 'r')
data = file.read(1024)
file = open connectionSocket.send(data.encode())
print("Sent contents of " + sentence)
file.close()
connectionSocket.close()

```

Output

Client Side -

(MAS) Enter file name: Server TCP.py

Server Side:

Server Side:

The server is ready to receive

Sent contents of Server TCP.py

The server is ready to receive.

28/12/24