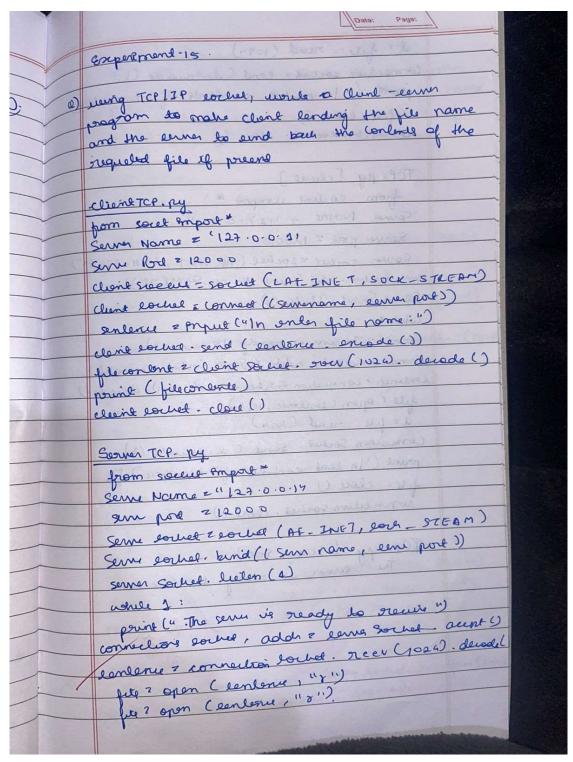
Avani.A (1BM22CS059)

EXPERIMENT-15

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:



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Code:

```
clientTCP.py
from socket import *
serverIP = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF INET,SOCK STREAM)
clientSocket.connect((serverIP,serverPort))
sentence = input("File name:")
clientSocket.send(sentence.encode())
filecontents = clientSocket.recv(1024).decode()
print(filecontents)
clientSocket.close()
serverTCP.py
from socket import *
serverIP = '127.0.0.1'
serverPort = 12000
serverSocket = socket(AF INET,SOCK STREAM)
serverSocket.bind((serverIP,serverPort))
serverSocket.listen(1)
while(1):
  print("Server Ready!")
  connectionSocket, clientAddr = serverSocket.accept()
  sentence = connectionSocket.recv(1024).decode()
  file = open(sentence,'r')
  contents = file.read(1024)
  connectionSocket.send(contents.encode())
  file.close()
  serverSocket.close()
```

Output:

```
PS C:\Users\I AM HP\CN> python ClientTCP.py
 Enter file name :ServerTCP.py
 From Server:
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")
    l=file.read(1024)
    connectionSocket.send(1.encode())
    print("\n Sent contents of"+sentence)
    file.close()
    connectionSocket.close()
PS C:\Users\I AM HP\CN>
```