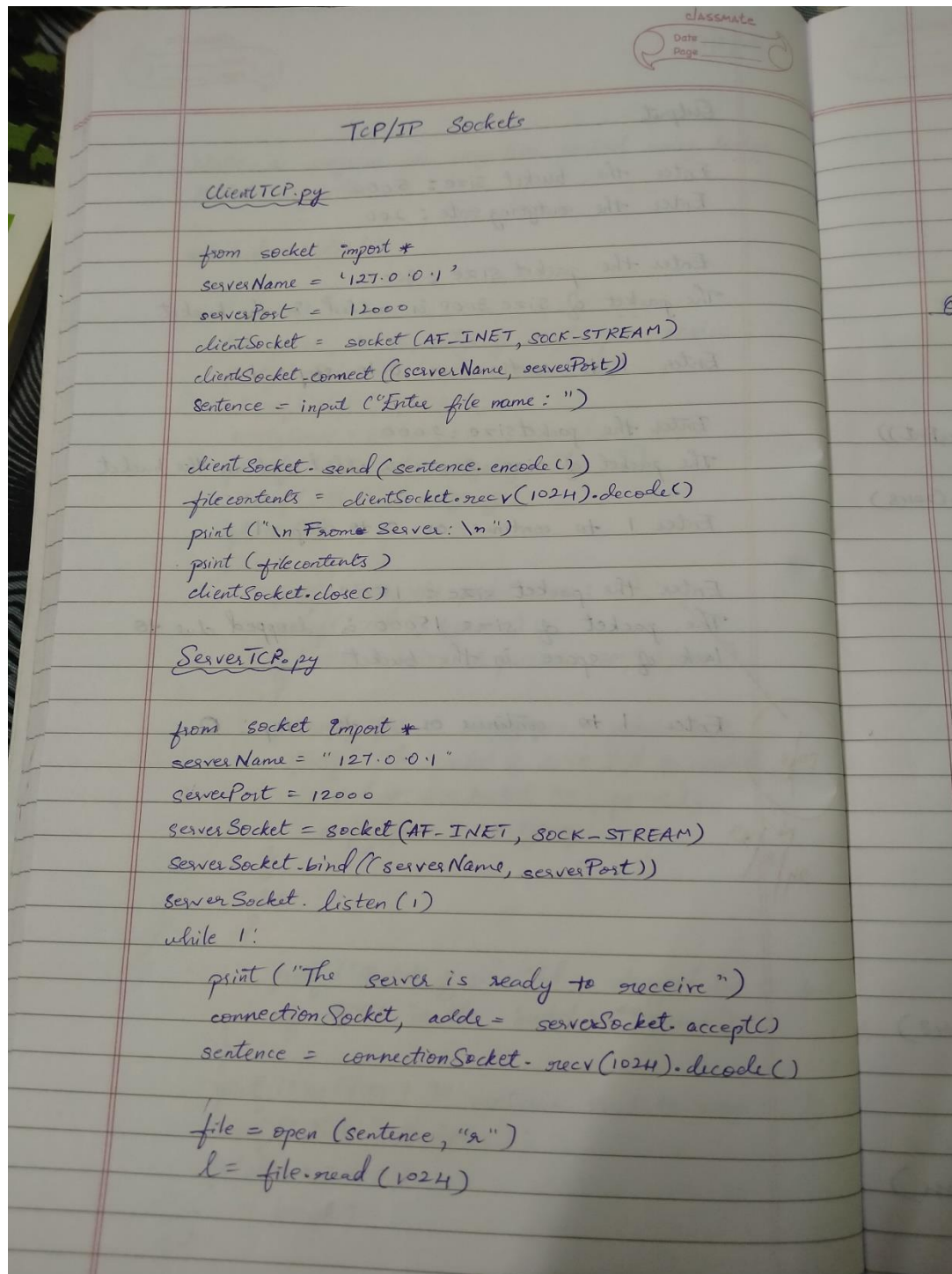


### Experiment 15:

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



connectionSocket.send(b.encode())  
print("\n Sent contents of " + sentence)  
file.close()  
connectionSocket.close()

Output:

Server Side:

The server is ready to receive

Client Side:

Enter file name: ServerTCP.py

From Server:

from socket import \*

(code under serverTCP.py is printed as written above)

Server Side:

The server is ready to receive

Sent contents of ServerTCP.py

The server is ready to receive.

### Screenshots:

```
1  from socket import *
2  serverName = '127.0.0.1'
3  serverPort = 12000
4  clientSocket = socket(AF_INET,SOCK_STREAM)
5  clientSocket.connect((serverName,serverPort))
6
7  filename = input("Enter the filename: ")
8  clientSocket.send(filename.encode())
9  fileContents = clientSocket.recv(1024).decode()
10 print("\n File contents :\n")
11 print(fileContents)
12
13 clientSocket.close()
```

```
1  from socket import *
2  serverName = '127.0.0.1'
3  serverPort = 12000
4  serverSocket = socket(AF_INET,SOCK_STREAM)
5  serverSocket.bind((serverName,serverPort))
6  serverSocket.listen(1)
7  while 1:
8      print("Server is listening")
9      connectionSocket, addr = serverSocket.accept()
10     filename = connectionSocket.recv(1024).decode()
11
12     file = open(filename,"r")
13     fileContents = file.read(1024)
14
15     connectionSocket.send(fileContents.encode())
16     print("\nSent file contents of " + filename)
17     file.close()
18     connectionSocket.close()
19
20 |
```

### Output:

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\TCP> python server.py
Server is listening

Sent file contents of server.py
Server is listening
█
```

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\TCP> python client.py
Enter the filename: server.py
```

File contents :

```
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 listening")
    connectionSocket, addr = serverSocket.accept()
    filename = connectionSocket.recv(1024).decode()

    file = open(filename,"r")
    fileContents = file.read(1024)

    connectionSocket.send(fileContents.encode())
    print("\nSent file contents of " + filename)
    file.close()
    connectionSocket.close()
```

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\TCP> █
```