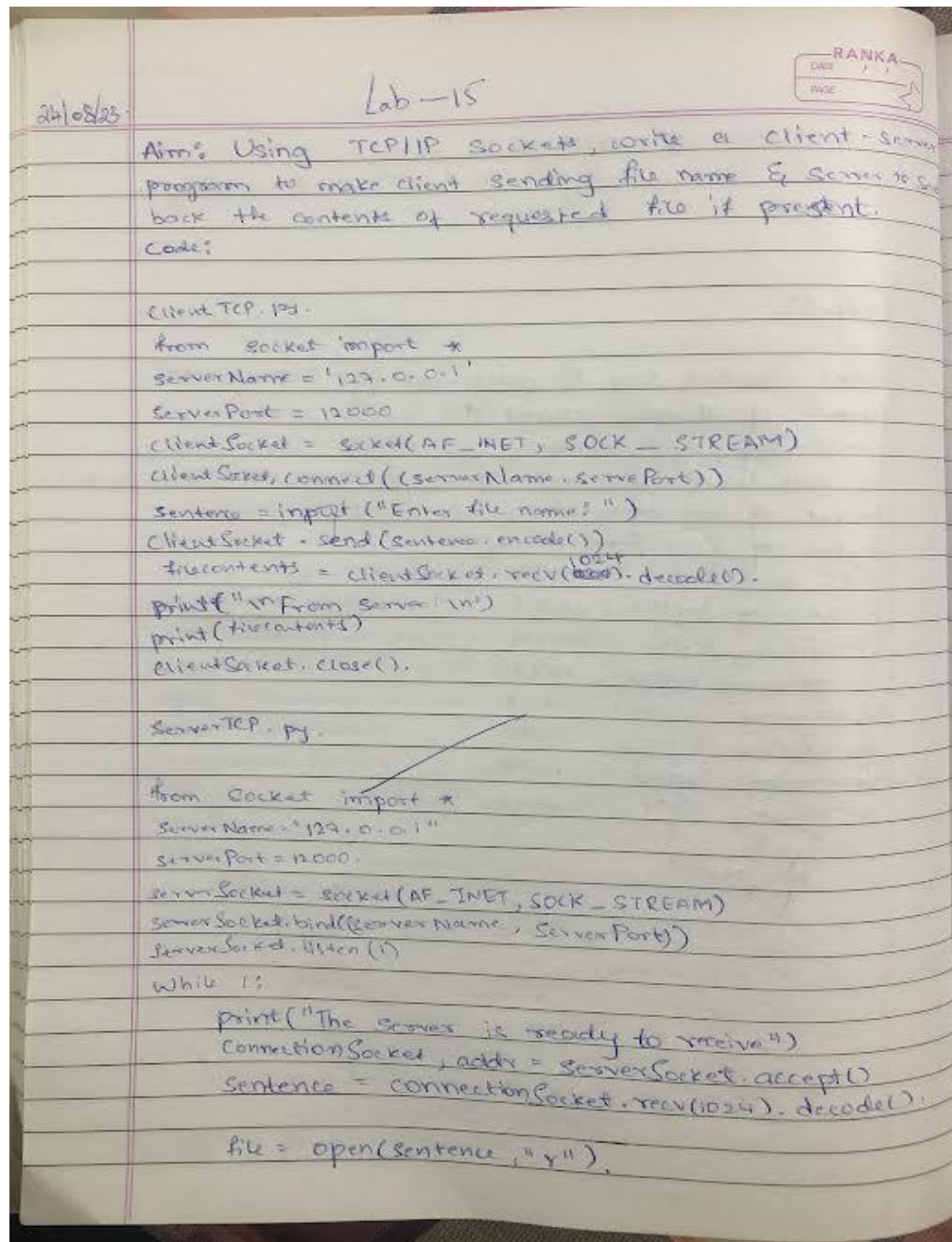
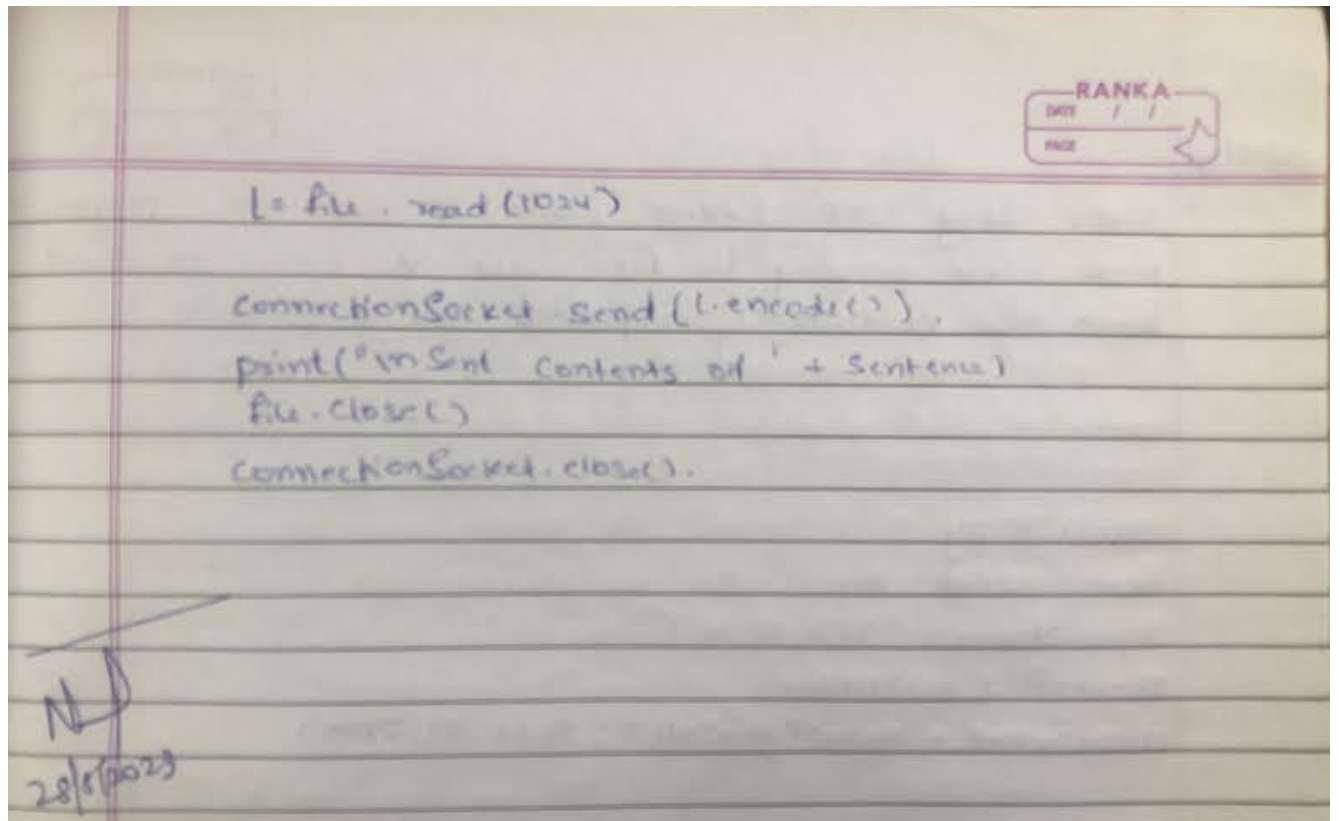


## EXPERIMENT-15

**Question:** 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.

**Program:**





Code:

Server.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")
l=file.read(1024)

conectionSocket.send(l.encode())
print("\nSent contents of "+sentence)
file=close()
connectionSocket.close()
```

Client.py

```
from socket import *
serverName='127.0.0.1'
serverPort=12000
clientSocket=socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence=input("\nEnter file name: ")

clientSocket.send(sentence.encode())
filecontents=clientSocket.recv(1024).decode()
print('\nFrom Server:\n')
print(filecontents)
clientSocket.close()
```

**Output:**

```
clienttcp.py - C:/Users/Admin/Desktop/IBM21CS047/clienttcp.py (3.10.8)
File Edit Format Run Options Window Help
from socket import *
serverName='127.0.0.1'
serverPort=12000
clientSocket=socket(AF_INET, SOCK_STREAM)
sentence=""
filecontent=""
print("\n")
print(file)
clientSocket.connect((serverName, serverPort))
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(l.encode())
    print("\nSent contents of "+sentence)
    file.close()
    connectionSocket.close()
>>>

===== RESTART: C:/Users/Admin/Desktop/IBM21CS047/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(l.encode())
    print("\nSent contents of "+sentence)
    file.close()
    connectionSocket.close()
>>>

servertcp.py - C:/Users/Admin/Desktop/IBM21CS047/servertcp.py (3.10.8)
File Edit Format Run Options Window Help
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("The Server is ready to receive")
9     connectionSocket, addr=serverSocket.accept()
10    sentence=connectionSocket.recv(1024).decode()
11
12    file =
13    l=file
14    con=
15    prin
16    print
17    file
18    con=
19
===== RESTART: C:/Users/Admin/Desktop/IBM21CS047/servertcp.py =====
The Server is ready to receive

Sent contents of servertcp.py
Traceback (most recent call last):
  File "C:/Users/Admin/Desktop/IBM21CS047/servertcp.py", line 17, in <module>
    file.close()
TypeError: _socket.close() takes exactly one argument (0 given)
>>>
```