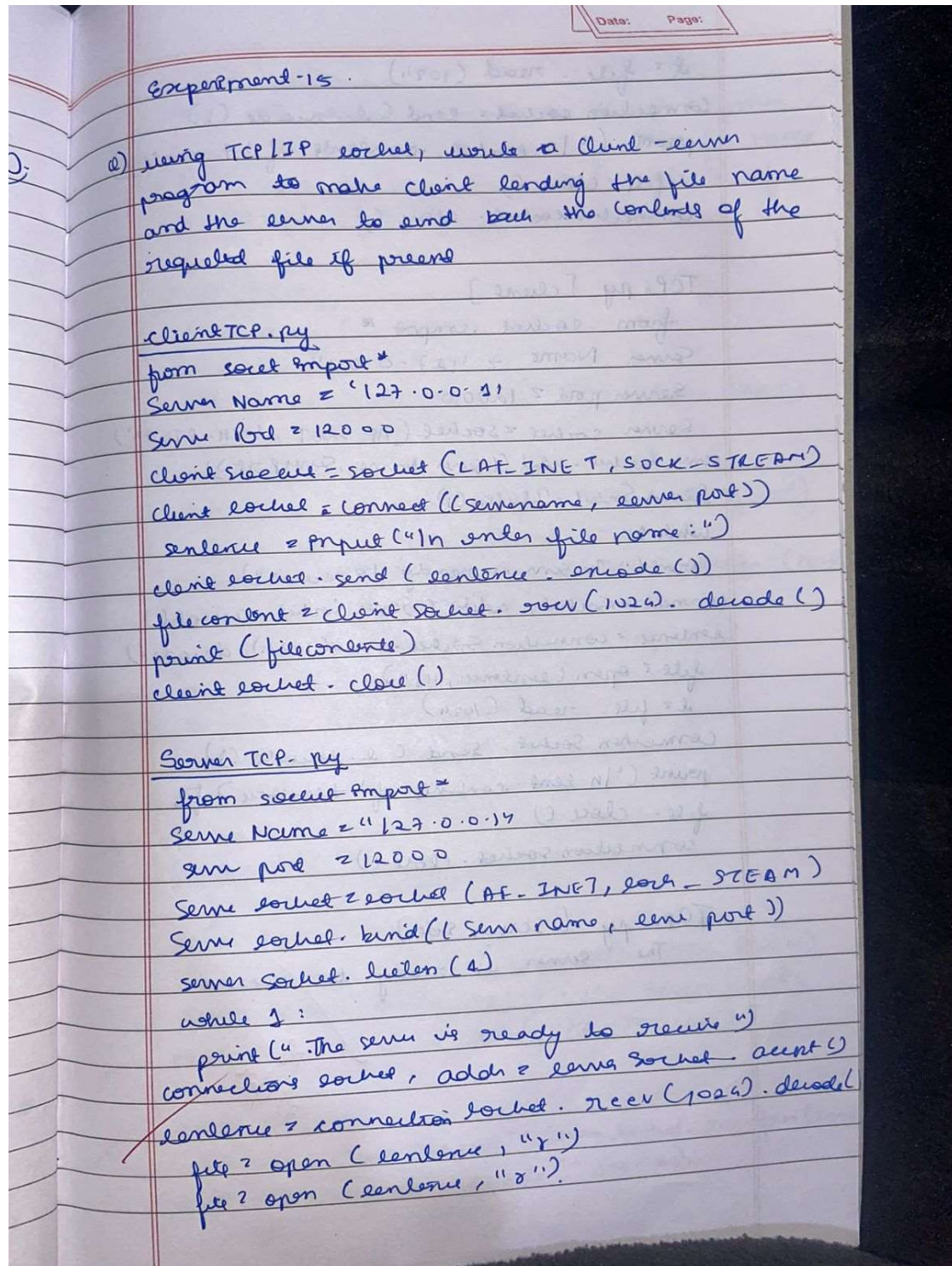


EXPERIMENT-15

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:



```

l = file.read(1024)
connection_socket.send(l.encode())
print('In socket contents of ' + sentence)
file.close()
connection_socket.close()

```

TCP.py [client]

```

from socket import *
Server Name = '127.0.0.1'
Server port = 12000
Server_socket = socket(AF_INET, SOCK_STREAM)
server_socket.bind((Server Name, Server port))
Server_socket.listen(1)
while 1:
    print("The server is ready to receive")
    connection_socket, address = Server_socket.accept()
    sentence = connection_socket.recv(1024).decode()
    file = open(sentence, "r")
    l = file.read(1024)
    connection_socket.send(l.encode())
    print('In send contents of ' + sentence)
    file.close()
    connection_socket.close()

```

TCP.py [server side]

The server is ready to receive

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

```
PS C:\Users\I AM HP\CN> 
```