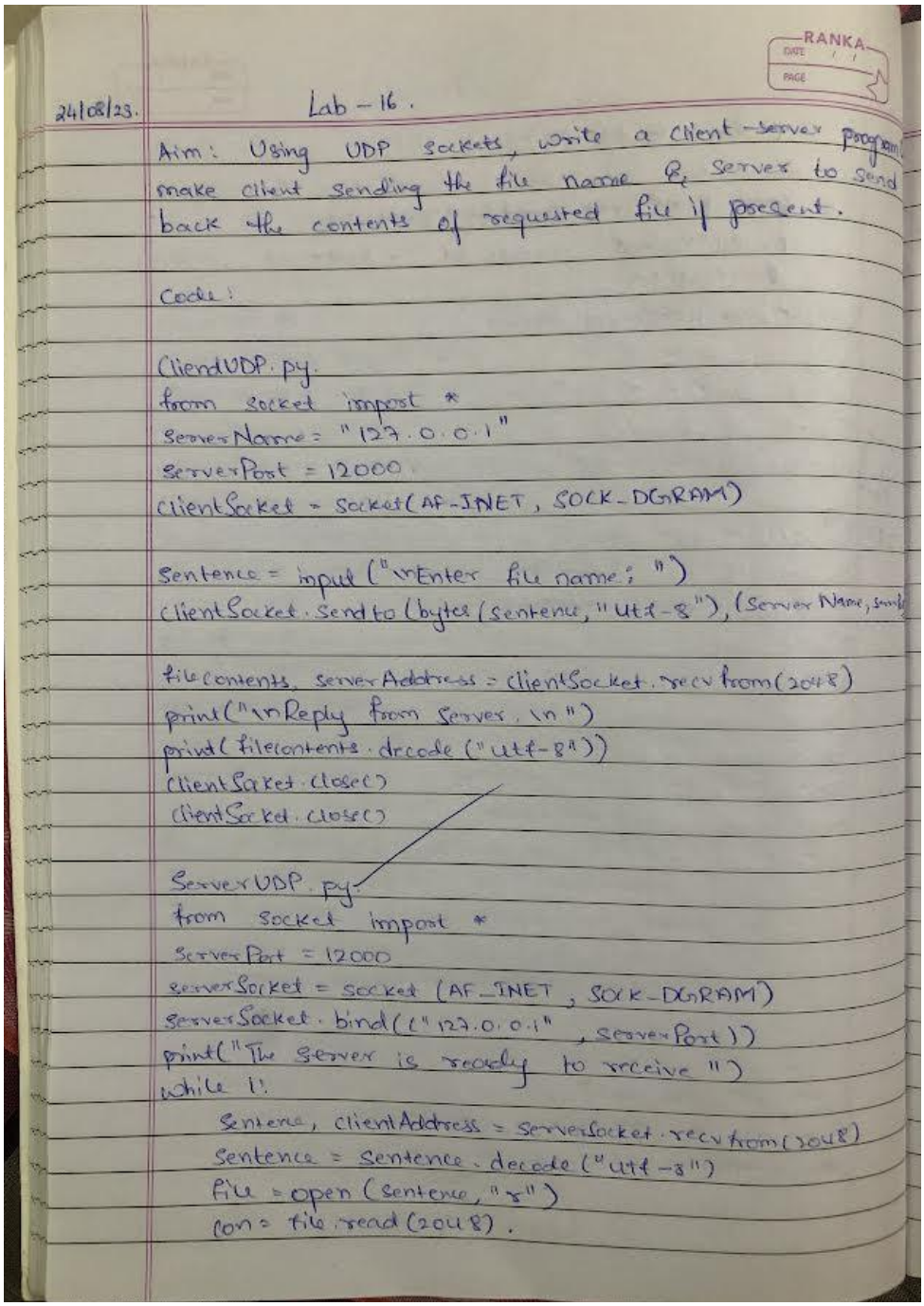
EXPERIMENT-16

Question: Using UDP 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:



24/08/23. Lab – 16.

Aim: Using UDP sockets, write a client-server program to make client sending the file name & server to send back the contents of requested file if present.

Code:

ClientUDP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)

sentence = input("\nEnter file name: ")
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName,
fileContents, serverAddress = clientSocket.recvfrom(2048)
print("\nReply from Server.\n")
print(fileContents.decode("utf-8"))
clientSocket.close()
clientSocket.close()
```

ServerUDP.py

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))
print("The server is ready to receive")
while 1:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode("utf-8")
    file = open(sentence, "r")
    con = file.read(2048).
```

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serverSocket.sendto(bytes(len,"utf-8"), clientAddress).

print('\n Sent contents of ', end = ' ')
print(sentence)
file.close()

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Code:

Server.py

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(('127.0.0.1', serverPort))
print ('The server is ready to receive')
while 1:
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode('utf-8')
    file=open(sentence,"r")
    con=file.read(2048)

    serverSocket.sendto(bytes(con,'utf-8'),clientAddress)

    print ('\nSent contents of ', end = '')
    print (sentence)
    # for i in sentence:
        # print (str(i), end = '')
    file.close()
```

Client.py

```
from socket import *
serverName = '127.0.0.1'


serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input('\nEnter file name: ')
clientSocket.sendto(bytes(sentence,'utf-8'),(serverName, serverPort))
filecontents,serverAddress = clientSocket.recvfrom(2048)
print ('\nReply from Server:\n')
print (filecontents.decode('utf-8'))
clientSocket.close()
clientSocket.close()
```

Output: