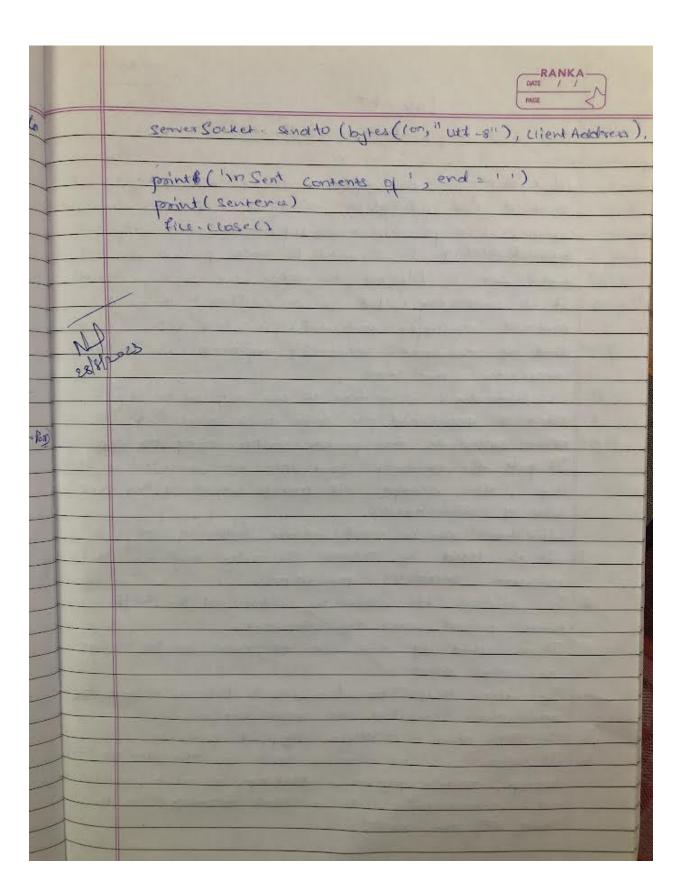
## **EXPERIMENT-16**

**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:

| 24108/23. | Lab - 16.  |
|-----------|--|
|           | Aim: Using UDP sockets, write a client server pro  |
|           | make client sending the file name & server to so   |
|           | make about sending the file name & server to so back the contents of requested file I present. |
|           |  |
|           | Cocke !  |
|           |  |
|           | (liendUDP. py.   |
|           | P - + +  |
|           | Server Name = "127.0.0.1"  |
|           | ServerPost = 12000   |
|           | client Socket - Socket (AF-INET, SOCK-DGRAM)   |
|           |  |
|           | sentence = input (" wEnter file name; ")   |
|           | client Socket . Send to (bytes (sentence, " Utd - 8"), (server Name,                           |
|           |  |
|           | file contents, server Address = (light Socket recv from (2048)                                 |
|           | print ("In Reply from geover, In")   |
|           | prival filecontents droade ("utf-8"))  |
|           | (Hent Sorket (Loser)   |
|           | (lient Socket absec)   |
|           |  |
| -         | Server UDP. py!  |
|           | from socket import *   |
|           | Setver Port = 12000  |
|           | generSocket = Socket (AF_INET, SOCK_DORAM)   |
|           | Server Socket . bind (1" 127.0.0.1", server Port ))  |
|           | bring the sesses is search to except 11)   |
|           | I IONICE CO  |
|           | Sentena, client Address = Serverlocket recution (roug)   |
|           | sentence = sentence decade ("utf-1)  |
|           | file = open (sentence, "x")  |
|           | con: tile read (2048).   |



```
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:**

