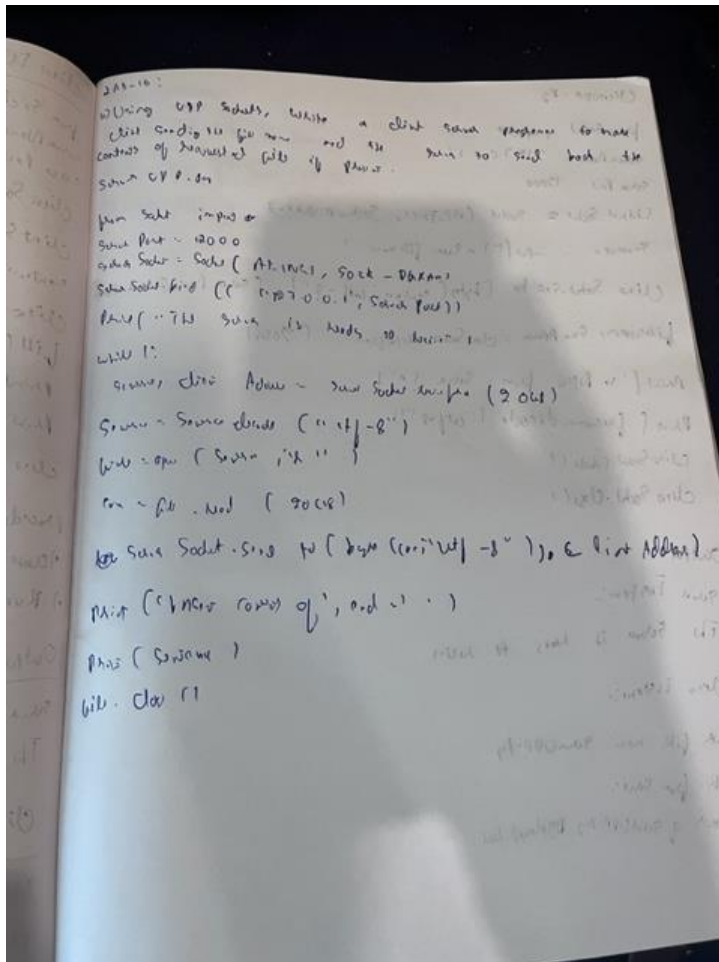# Cycle II

Lab 16:

Aim : 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.

```
ClientUDP.py

from socket import *
ServerName = "127.0.0.1"
ServerPort = 12000
ClientSocket = socket (AF_INET, SOCK_DGRAM)
Sentence = input ("...") a run filename
Client Socket.Sendto [bytes (sentence, "utf-8"), (ServerName, Serv...

libraries, ServerAddr = clientSocket.recvfrom  (2048)

print ("... Reply from Server : n")
print ( filename.decode. ("utf-8"))
clientSocket.recv ()
Client Socket.close ()


Output

Send Instance:

The Server is ready to serve

Close instance:

Run file now: ServerUDP.py

Reply from Server:
Content of SendUDP.py Displayed here
```

Serve Instructions

The serve is Ready to serve

Get content of serve CPI.85

The serve is ready to serve

Output :

Server instance :


```
*Python 3.6.7 Shell*                                              —

File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.7 (v3.6.7:6ec5cf24b7, Oct 20 2018, 13:35:33) [MSC v.1900 6
4)] on win32
Type "help", "copyright", "credits" or "license()" for more informati
>>>
============ RESTART: D:\AUG_DEC 2021\CN\LAB\cycle 3\ServerUDP.py ===
The server is ready to receive

Sent contents of  ServerUDP.py
The server is ready to receive
```

Client instance :


```
Python 3.6.7 Shell                                     —    □    ×

File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.7 (v3.6.7:6ec5cf24b7, Oct 20 2018, 13:35:33) [MSC v.1900 64 bit (AMD6
4)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============ RESTART: D:\AUG_DEC 2021\CN\LAB\cycle 3\ClientUDP.py ============

Enter file name:  ServerUDP.py

Reply from Server:

from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))

while 1:
    print ("The server is ready to receive")
    sentence, clientAddress = serverSocket.recvfrom(2048)
    sentence = sentence.decode("utf-8")
    file=open(sentence,"r")
    l=file.read(2048)

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

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

>>>
```