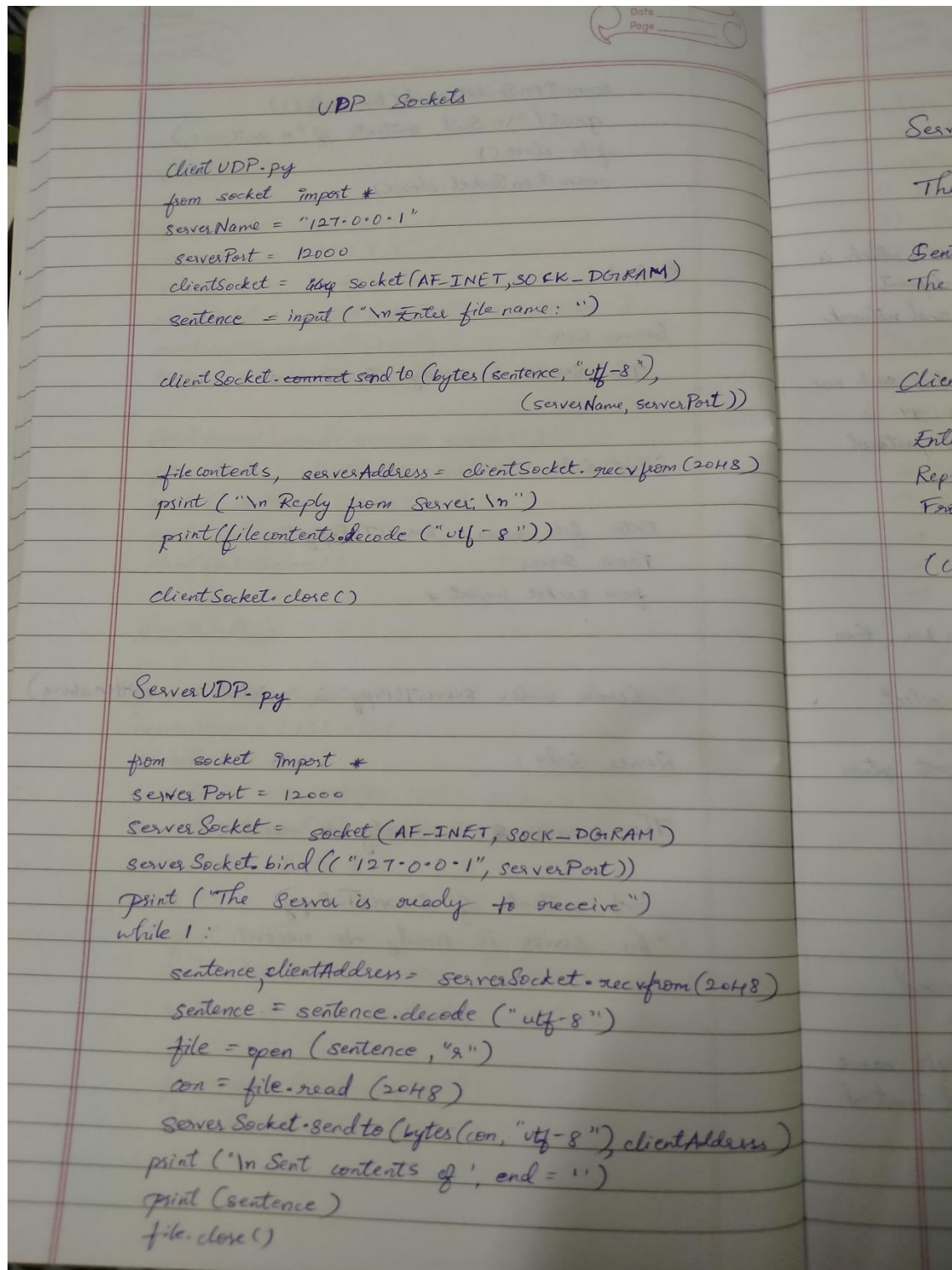


## Experiment 16:

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.



### Server Side

The server side is ready to receive

Sent contents of ServerUDP.py

The server is ready to receive.

### Client side:

Enter the name : ServerUDP.py

Reply from Server :

From socket import \*

(Code of ServerUDP.py as written above)

## Screenshots:

```
1  from socket import *
2  serverName = '127.0.0.1'
3  serverPort = 12000
4  clientSocket = socket(AF_INET, SOCK_DGRAM)
5
6  filename = input("Enter filename: ")
7
8  clientSocket.sendto(bytes(filename, "utf-8"), (serverName, serverPort))
9
10 fileContents, serverAddress = clientSocket.recvfrom(2048)
11 print("\nFile contents: \n")
12 print(fileContents.decode("utf-8"))
13
14 clientSocket.close()
```

```
1  from socket import *
2  serverName = '127.0.0.1'
3  serverPort = 12000
4  serverSocket = socket(AF_INET, SOCK_DGRAM)
5  serverSocket.bind((serverName, serverPort))
6
7  while 1:
8      print("Server is listening")
9      filename, clientAddress = serverSocket.recvfrom(2048)
10     filename = filename.decode("utf-8")
11
12     file = open(filename, "r")
13     fileContents = file.read(2048)
14     serverSocket.sendto(bytes(fileContents, "utf-8"), clientAddress)
15     print("\nSent file contents of file " + filename)
16     file.close()
17
```

## Output:

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\UDP> python client.py
Enter filename: server.py
```

File contents:

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

while 1:
    print("Server is listening")
    filename, clientAddress = serverSocket.recvfrom(2048)
    filename = filename.decode("utf-8")

    file = open(filename, "r")
    fileContents = file.read(2048)
    serverSocket.sendto(bytes(fileContents, "utf-8"), clientAddress)
    print("\nSent file contents of file " + filename)
    file.close()
```

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\UDP> █
```

```
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\UDP> python server.py
Server is listening
```

```
Sent file contents of file server.py
Server is listening
█
```