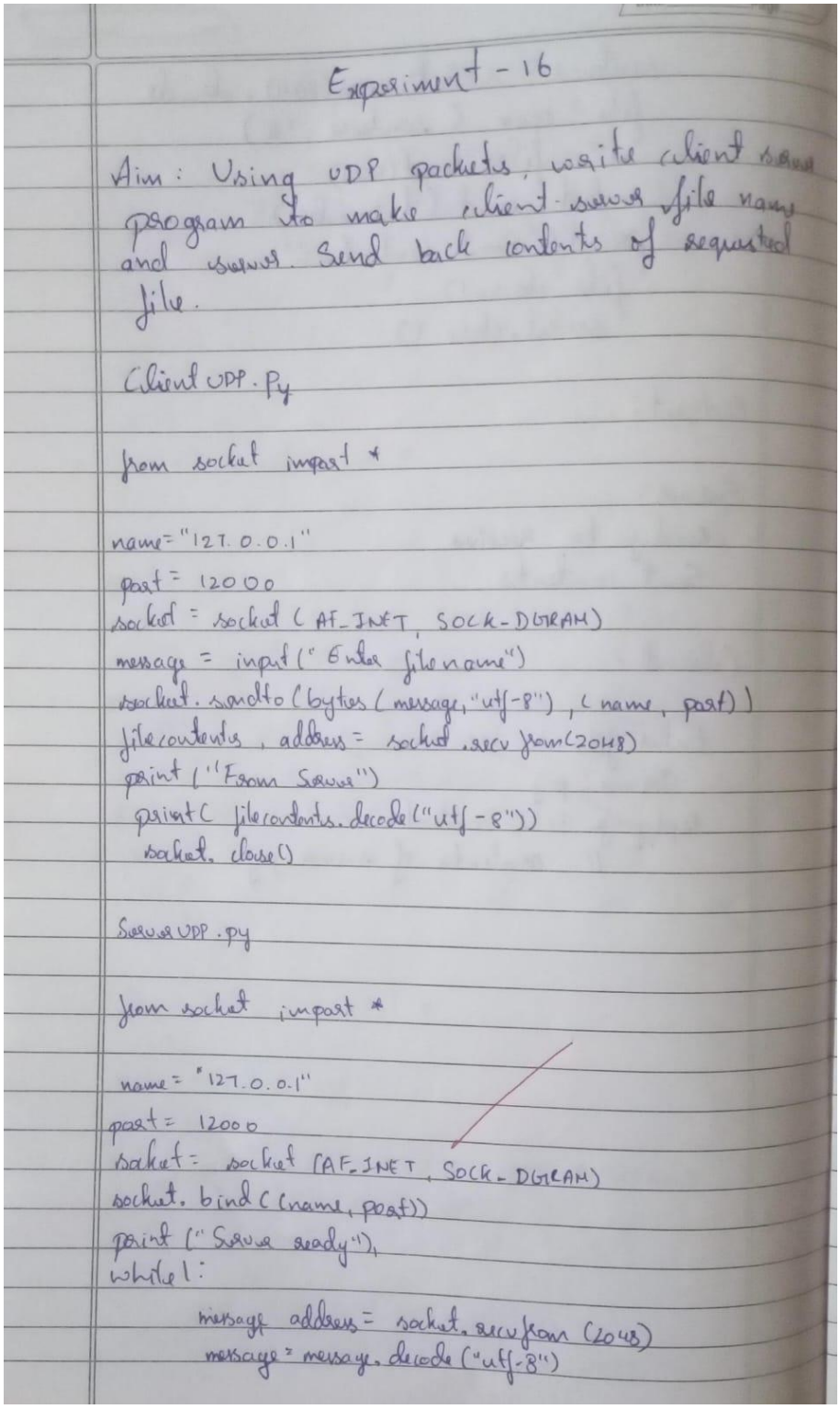
EXPERIMENT- 16

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.



Experiment - 16

Aim: Using UDP packets, write client server program to make client send file name and server send back contents of requested file.

Client UDP.Py

```
from socket import *

name="127.0.0.1"
port = 12000
socket = socket (AF_INET, SOCK_DGRAM)
message = input("Enter filename")
socket.sendto(bytes(message,"utf-8"),(name, port))
filecontents, address = socket.recv from(2048)
print("From Server")
 print( filecontents.decode("utf-8"))
  socket.close()
```

Server UDP.py

```
from socket import *

name = "127.0.0.1"
port = 12000
socket = socket (AF_INET, SOCK_DGRAM)
socket.bind((name, port))
print ("Server ready")
while 1:
        message address = socket.recvfrom (2048)
        message = message.decode("utf-8")
```

```
file = open(message, 'r')
conn = file.read(2048)
socket.sendto(bytes(con, "utf-8"), address)
print(message)
file.close().
```

Output:

Server:

Server ready

Server UDP.py

Client:

Enter file name

Server UDP.py

From server

// contents of server UDP.py

Code:

Client:

```
from socket import *

socket=socket(AF_INET,SOCK_STREAM)

ask=input("Enter file name ")
socket.sendto(bytes(ask,"utf-8"),("192.168.238.1",3000))
file,address=socket.recvfrom(2048)
print(file.decode("utf-8"))
socket.close()
```

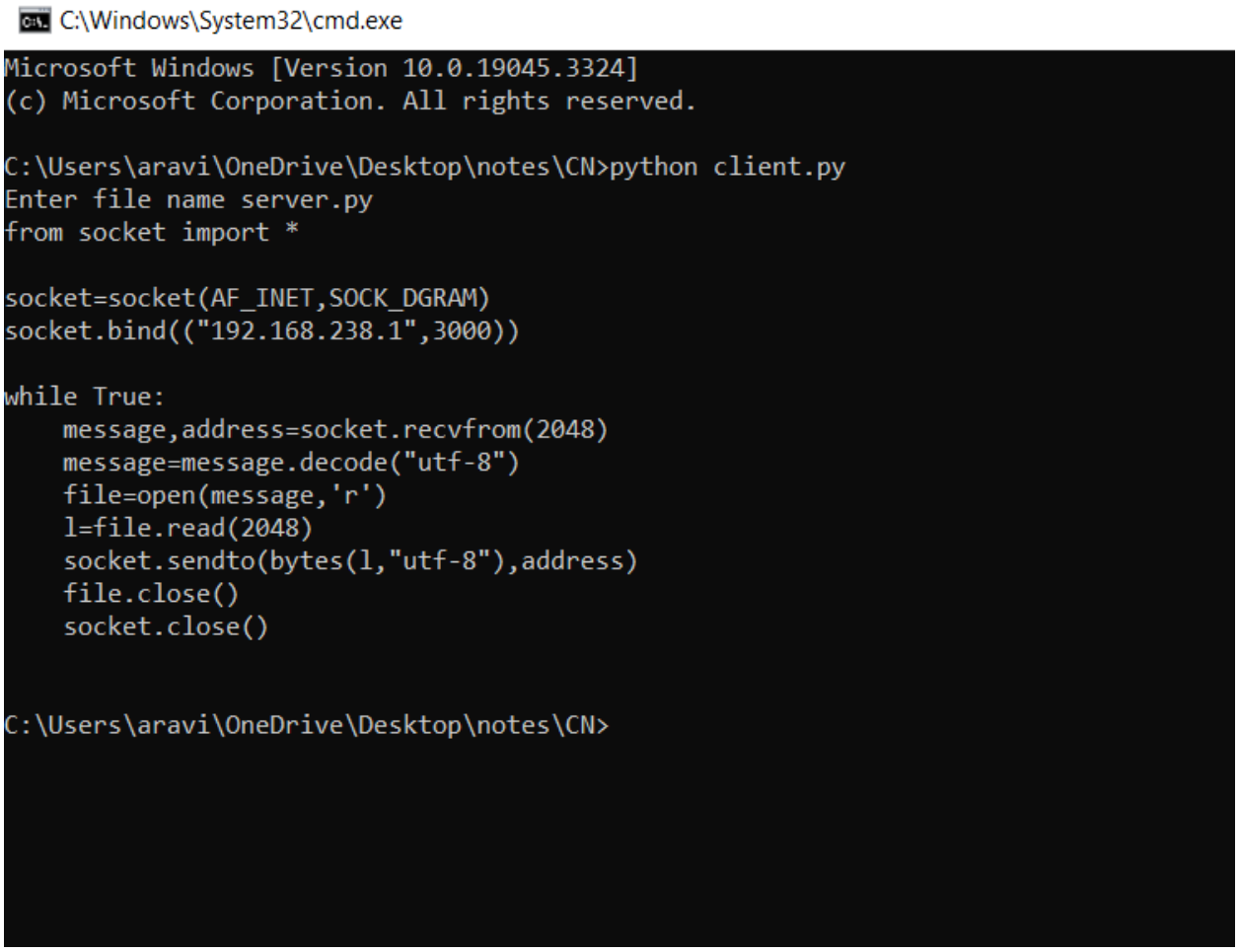
Server:

```
from socket import *

socket=socket(AF_INET,SOCK_STREAM)
socket.bind(("192.168.238.1",3000))

while True:
    message,address=socket.recvfrom(2048)
    message=message.decode("utf-8")
    file=open(message,'r')
    l=file.read(2048)
    socket.sendto(bytes(l,"utf-8"),address)
    file.close()
    socket.close()
```

Result:


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.3324]
(c) Microsoft Corporation. All rights reserved.
C:\Users\aravi\OneDrive\Desktop\notes\CN>python client.py
Enter file name server.py
from socket import *
socket=socket(AF_INET,SOCK_DGRAM)
socket.bind(("192.168.238.1",3000))
while True:
message,address=socket.recvfrom(2048)
message=message.decode("utf-8")
file=open(message,'r')
l=file.read(2048)
socket.sendto(bytes(l,"utf-8"),address)
file.close()
socket.close()
C:\Users\aravi\OneDrive\Desktop\notes\CN>