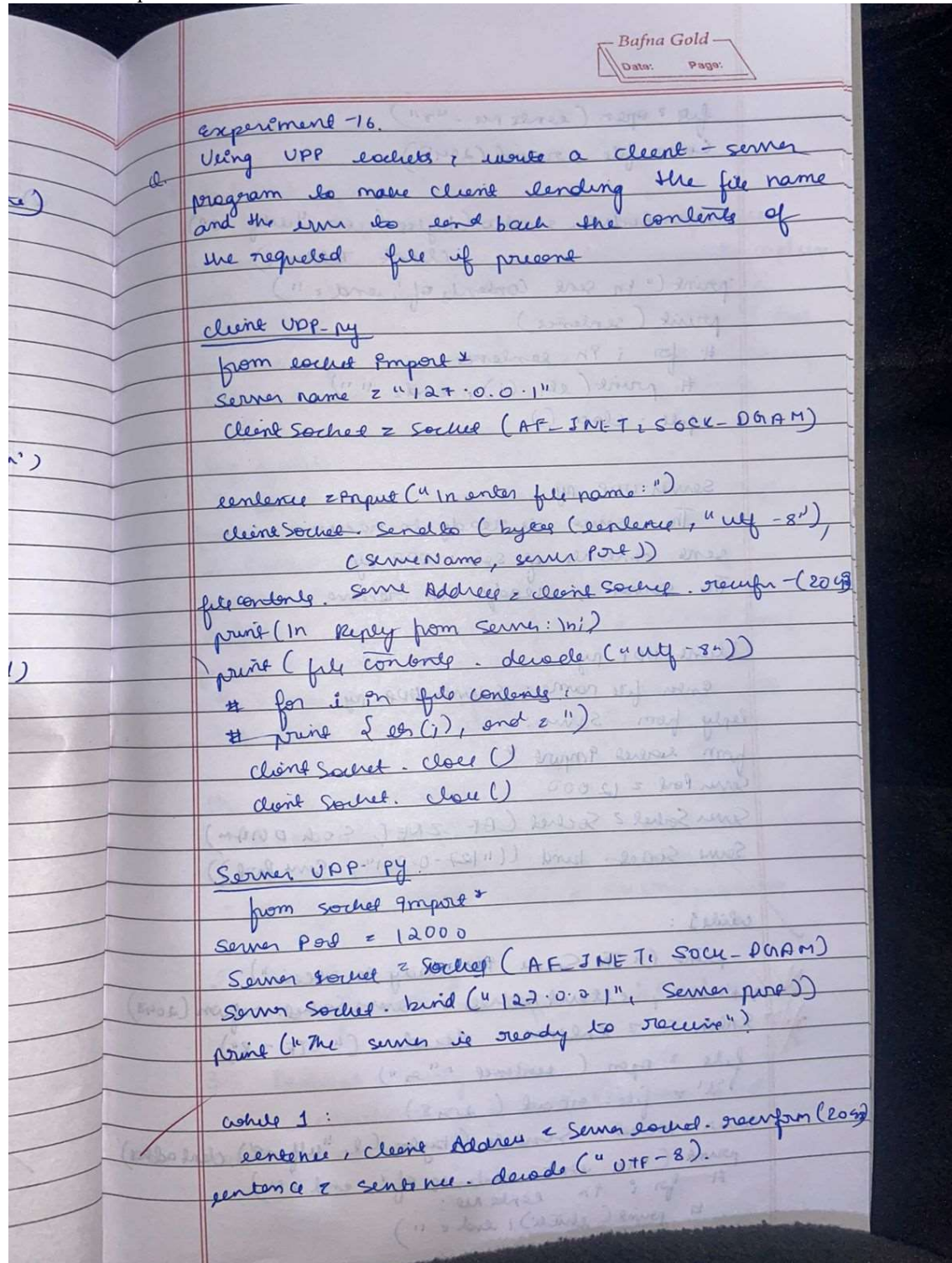


Avani.A (IBM22CS059)

EXPERIMENT-16

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

Code and Output:



```

file = open('sentence. "r"')
con = file.read(2048)

```

```

ServerSocket.sendto(bytes(con, "utf-8"),
                    clientAddress)
print("I've sent contents of ' and = ")
print(sentence)
# for i in sentence:
#     print(chr(i), end = " ")
file.close()

```

Server UDP.py

The server is ready to receive
sent contents of server UDP.py
The server is ready to receive

Client UDP.py

Enter file name: Server UDP.py
Reply from Server:
from socket import *
Server Port = 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)
    # 2.3
    sentence = sentence.decode("utf-8")
    file = open('sentence. "r"')
    'd' = file.read(2048)
    ServerSocket.sendto(bytes(d, "utf-8"), clientAddress)
    print("I've sent contents of ' and = ")
    # for i in sentence:
    #     print(chr(i), end = " ")
    file.close()

```

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Code:

clientUPD.py

```
from socket import *

serverIP = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET,SOCK_DGRAM)
sentence = input("File name")
clientSocket.sendto(bytes(sentence,'utf-8'),(serverIP,serverPort))
contents,serverAddress = clientSocket.recvfrom(2048)
print(contents.decode())
clientSocket.close()
```

serverUDP.py

```
from socket import *

serverIP = '127.0.0.1'
serverPort = 12000
serverSocket = socket(AF_INET,SOCK_DGRAM)
serverSocket.bind((serverIP,serverPort))

while(1):
    print("READY")
    sentence,clientAdd = serverSocket.recvfrom(2048)
    sentence = sentence.decode()
    file = open(sentence,'r')
    cont = file.read(2048)
    serverSocket.sendto(bytes(cont,'utf-8'),clientAdd)
    file.close()
    serverSocket.close()
```

Output:

```
DEBUG CONSOLE  PROBLEMS  TERMINAL  PORTS

PS C:\Users\I AM HP\CN> python ServerUDP.py
The server is ready to receive

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

```
PS C:\Users\I AM HP\CN> python 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")
    con=file.read(2048)
    serverSocket.sendto(bytes(con,"utf-8"),clientAddress)
    print("\n Sent contents of "+sentence)
    file.close()
PS C:\Users\I AM HP\CN> █
```