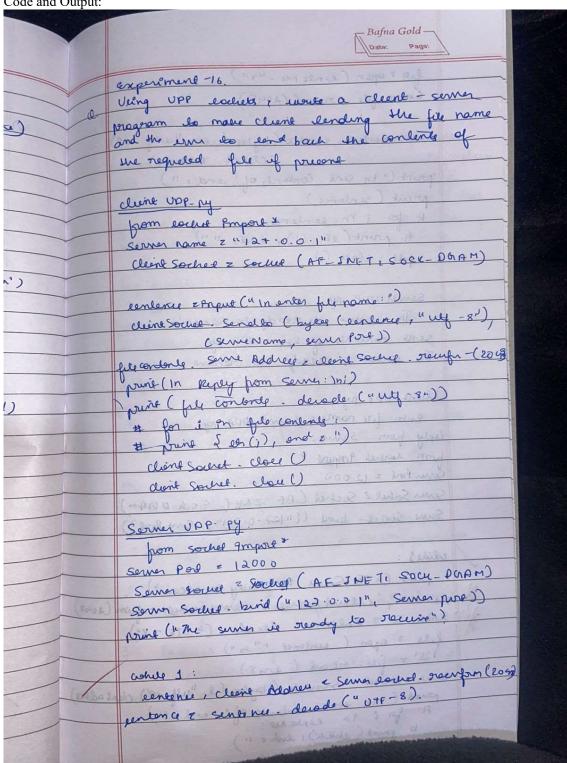
Avani. A (1BM22CS059)

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:



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	file. close ()		4

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:

```
OPS 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

Output

Debug console PROBLEMS TERMINAL PORTS

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The server is ready to receive

Output

Debug console PROBLEMS TERMINAL PORTS

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Output

Debug console PROBLEMS TERMINAL Ports

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```

```
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"), clientAddre
ss)
    print("\n Sent contents of "+sentence)
    file.close()
PS C:\Users\I AM HP\CN> |
```