Experiment 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.

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PROGRAM:

ServerUDP

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", serverPort))
print ("The server is ready to receive...")
while (1):
    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("\nSent contents of :", end = ' ')
    print(sentence)
    file.close()
```

ClientUDP:

```
from socket import *
serverName = "127.0.0.1";
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input("\nEnter file name: ")
clientSocket.sendto(bytes(sentence,"utf-8"),(serverName, serverPort))
filecontents, addr = clientSocket.recvfrom(2048)
print("\nReply from Server:\n")
print(filecontents.decode("utf-8"))
clientSocket.close()
```

OUTPUT:

```
PS C:\Users\anosh\OneDrive\Desktop\CPP in VS\try> python -u "c:\Users\an osh\OneDrive\Desktop\CPP i
```