Experiment-4 :-

Aim : Using UDP sockets, write a client-server program to make client sending the filename & the server to send back the contents of the requested file if present

Code :-

1. Client UDP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket (AF-INET, SOCK-DGRAM)
sentence = input ("\n enter file name: \n")
client-Socket. sendto (bytes (sentence, "utp-8"), (serverName,
                                                    serverPort))

filecontents, serverAddress = clientSocket. recv from (2048)
print (" \n Reply from server: \n")
print (file contents. decode ("utp-8"))
# for i in file contents:
    #print (str [i], end = " ")
client socket. close ()
etic
```

2. ServerUDP.py

```
from socket import +
serverPort = 12000
serversocket = socket (AF-INET, SOCK-DGRAM)
serversocket. bind (("127.0.0.1", serverPort))
print ("the server is ready to recieve")
while 1:
    sentence, clientAddress = serversocket. recu from (2048)
    sentence = sentence. decode ("utf-8")
    file = open (sentence, "r")
    con = file. read (2048)
```

serverSocket.sendto (bytes ("utf-8"); ClientAddress)
print ("\n sent content of", end = "")
print (sentence)
for i in sentence:
        # print (str(i), end = "")
file.close ()

Output :-

* When you run ServerUDP.py

    The server is ready to recieve
* When you run ClientUDP.py
Enter file name: Server UDP.py
Reply from server:
(the files from serverUDP.py will be
copied & displayed here)

* In "Server"UDP.py

The server is ready to recieve
Sent contents of server UDP.py
    The server is ready to recieve