Program 4:

Question:

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.

```
(4) ling UPP sockets, write aclient-somes
   program to make client sending the file name
   and the server to send back the contents of the
   requested file of present.
                 the server is ready to receive
   from socket import * 1934 min of minimum source
  udpclient py
    server Name = "127.0.0.1" plans
   semer Post = 12000, somes get summer set most
    client 80 cket = socket (AF_INET, 80 CK - DGRAM)
    sentence = mput ("In Enter file name: ")
    clientsocket, send to ( bytes (sentence, "cutf-8"),
        (senier Name, server Port))
    file kontents, serverAddress = clientsocket. recufrom
                                              (20U8)
    print ('In Reply from senies: In")
     part (file content decode ("utf-8"))
     dientsocket. close()
     dientsocket dose ()
  udpserver . py
   from socket impost *
   server Post = 12000
   server socket = socket (AF_INET, SOCF-DYRAM)
   serves socket. blind (("127.0.0.1", serverout))
   point ("The server is ready to receive")
   while 1:
      sentence, client-Addres = serversocket. recr from (2048)
       sentence = sentence .decode("utf-8")
      file = open ( sentence, "7")
```

```
server socket sendto (byter (con, "utf-8"),

clientAddress)

pmit ("Insent contents of "Lend="")

pmit (sentence)

file closec)

OUTPUT:-

The server is ready to receive

sent contents of senurudp. py

server is ready to receive

server is ready to receive
```

Code:

udpserver.py file:

```
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)

# for i in sentence:

# print (str(i), end = ")

file.close()
```

udpclient.py file:

```
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,serverAddress = clientSocket.recvfrom(2048)

print ('\nReply from Server:\n')

print (filecontents.decode("utf-8"))

# for i in filecontents:

# print(str(i), end = ")

clientSocket.close()

clientSocket.close()
```

Output:

```
PS C:\Users\Dell\OneDrive\Desktop\code> python udpserver.py
The server is ready to receive

Sent contents of example.txt

PS C:\Users\Dell\OneDrive\Desktop\code> python udpclient.py

Enter file name: example.txt

Reply from Server:

Hello, this is a sample file.
It is used for testing the TCP server.
```