Program 4:

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.

Observation:

```
3 1 25
                        EXPERIMENT+ 16
         UDP sochets mide
                                 cleent
  program to make diend sending
  seemen to send back contents
  of purent.
  from
          so det
 seure Port = 12000
  simulactient : sochet (AF_INET, SOCK = DGRAM)
  server Socket . Levid ("127.0.0.1", server Port))
  paint ("deener is ready to recieive")
  achete 1:
  denleuce, chient Addien: serverbollet. decr from (2042)
       Seulen ce : seulen ce devode ( out = 8") de vote
       fite = open ( oerden ce, " ")
       con = file . mad (2018)
  considerent. sendto ( bytes ( con, " ul - 8"), elient Addies)
        pecial ("Indeed contends of ", end = ")
        peut (seulence)
       #fre . I is fele contents.
           # puid (stili). end = ").
  dein Sould . close ()
  clientochet, close ()
  Clean OBP. py
   from welled unjoil
  Server Name = " 127-0.0.1"
```

```
ceme Part: 12000
           clientaudret = societ (AF-INET, SOCK_PGRAM)
           soutence = expect (" In Enter file name: ")
1101
           denthocket sendlo (byter (sentence, "ulf ?")
and .
fele
           Ciemo Name, server Port))
           precontents, sementidien, dient socket, recu from (20 4)
           puil ("In Reply from Lewer: In ") dans
           pout (file contents dero de ("ulf = 8"))
           # for i in filecontents:

# pend ( str (i), end: " ")
Einz
           clien Soules class Out mutgo mutgo duties.
            cherd Society close () . . ) was public many many
            e holand maly is support hundreds of proton
            QUITFUT:
           the server is ready to receive?

dend contents of some clos by freezewar hide
            Lewer to ready to decetive and word town of
                 heinvicked laws ( ethered, To Tex (100)
                          ings rounder wals pure sport
```

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 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()
```

Clienttudp.py

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.
```