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.

```
using UDP sockets, woike a client-Sealer Program
   to make client sonding the file name are bere
   Some to send buck the contents of the
   requered file it Propert
   Client UDP. Py
   from gocket import &
   Sever Name ="127.0.0.1"
   client Saker = Socket (AF-I NET, SOCK - DURAM)
   sentence = inRuc"inEnter file name; ")
   Client Sourcet. Send + o( bykes (Senkerne, "U+f-8");
(Sermes Name, Servey Porst)
   file contents, server Add very = client Societ secufson God
   Point ("in Roply from Server: In)
   Pri+ (file contents de code ("0+f-8"))
   # for i in filecontents
       Herint (Strci), end = ")
   Client Socket. Closes
   client Socket. (10sec)
 ServeUPP. Py
from socker import *
Server Port = 12000
SORVEY SOCKET = SOCKET CAF_ INET, SOCK-DURAM)
server Socket. Lind (["127.001", server Post))
Print ("The server is ready to receive")
while 1:
     Sentence, client Address - server socket recufronco
     Sintenne: Sintence decode ("UFF-8")
     file 7.08en (Sentence; 8")
     con = file read (2048)
```

Server Societ. Send to (bytes (con, "uff-8"),

Print ('In Sent contents of', end=')

File . Elose ()

pur server UDP. Py

The server UDP. Py

The server is ready to receive

Fun Went UDP. Py

Enter file name: server UDP. Py

Reply form somer:

Contents of somer UDP. Py

119

## **Output:**

```
al/Programs/Python/Python/318/serverudp.gy (... - 🗆 X 📗 file Edit Format Run Options Window Help
 from socket import *
serverifame = *127.0.0.1*
serverifort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
                                                                                                                                                              sentence = input("\nEnter file name: ")
                                                                                                                                                              clientSocket.sendto(bytes(sentence, "utf-0"),(serverName, serverFort))
                                                                                                                                                             filecontents.serverAddress = clientSocket.recvfrom(2048)
                                                                                                                                                             filecontents, serverAddress = clientSo
print ('\nless') from Server'\n')
print (filecontents.decode("urf-0"))
for in filecontents.decode("urf-0"))
for in filecontents.decode("urf-0")
clientSocket.close()
clientSocket.close()
           serverSocket.sendto(bytes(com, "utf-8"),clientAddress)
        print ('\nsent contents of ', end = ' ')
print (sentence)
$ for i in sentence:
$ print (str(i), end = '')
file.close()
 A 1015 SWI 3 1031
                                                                                                                                                              A IDLE Shell 3.10.8
                                                                                                                                                             File Edit Shell Debug Option Window Help

Fython 5.10.8 (tegs/v3.10.8:easf517, Get 11 2022, 16:50:30) [MSC v.1933 64 bil
AMD64]] on win32

Type "help", "copyright", "credite" or "license()" for more information.
File Edit Shell Debug Cytion: Window Help

Pythom 3.10.6 (tagg/v3.10.5:seef517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (
AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
       = RESTABT: C:/Users/Admin/AppDets/Local/Programs/Python/Python310/serverudp.py = The server is ready to receive
                                                                                                                                                                     - RESTART: C:/Users/Admin/AppDeta/Local/Programs/Python/Python310/clientudp.py
                                                                                                                                                                     Enter file name: serverudp.py
        Sent contents of serverudp.py
                                                                                                                                                                     Reply from Server:
                                                                                                                                                                    from socket import "
serverPort = 12000
serverPort = 2000
serverSocket = socket(AF_IMET, SOCK_DSKAM)
serverSocket.bind("127.0.0.1", serverPort)
print ("The server is ready to receive")
while i:
sentence, clientAddress = serverSocket.reovfrom(2048)
sentence = sentence.decode("utf-8")
file=read(2048)
com=file.read(2048)
                                                                                                                                                                              serverSocket.sendto(bytes(con,*utf-8*),clientAddress)
                                                                                                                                                                           print ('\nSent contents of ', end = ' ')
print (sentence)
f for i in sentence:
    f print (str(i), end = '')
file.close()
```