

CN LAB
CYCLE 2
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PROGRAM 6

Using UDP sockets, write a client server program to make client sending the filename and the server to send back the contents of the requested file if present.

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.recvfrom(2048)
    sentence=sentence.decode("utf-8")
    file=open(sentence,"r")
    l=file.read(2048)

    serverSocket.sendto(bytes(l,"utf-8"),clientAddress)

    print("\nSent contents of",end)
    print(sentence)
    #for i in sentence:
        #printl=(str(i),end="")
    file.close()
```

clientUDP.py

```
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

serverUDP.py - /Users/mallikaprasad/Desktop/serverUDP.py (3.10.1)

```

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")
    l=file.read(2048)
    serverSocket.sendto(bytes(l,"utf-8"),clientAddress)
    print('\nSent contents of', end = '')
    print (sentence)
    # for i in sentence:
    # print (str(i), end = &#39;&#39;&#39;)
    file.close()

```

clientUDP.py - /Users/mallikaprasad/Desktop/clientUDP.py (3.10.1)

```

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()

```

IDLE Shell 3.10.1*

```

Python 3.10.1 (v3.10.1:2cd268a3a9, Dec 6 2021, 14:28:59) [Clang 13.0.0 (clang-1300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/mallikaprasad/Desktop/serverUDP.py =====
>>>
The server is ready to receive
Sent contents ofserverUDP.py

```

IDLE Shell 3.10.1

```

Python 3.10.1 (v3.10.1:2cd268a3a9, Dec 6 2021, 14:28:59) [Clang 13.0.0 (clang-1300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/mallikaprasad/Desktop/clientUDP.py =====
>>>
Enter file name: serverUDP.py

Reply from server:

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")
    l=file.read(2048)
    serverSocket.sendto(bytes(l,"utf-8"),clientAddress)
    print ('\nSent contents of', end = '')
    print (sentence)
    # for i in sentence:
    # print (str(i), end = &#39;&#39;&#39;)
    file.close()
>>>

```