

## LAB-16

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

### Client UDP.py

```
from socket import *
ServerName = "127.0.0.1"
ServerPort = 12000
ClientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input("Enter file name:")

ClientSocket.sendto(bytes(sentence, "utf-8"),
                    (ServerName, ServerPort))
fileContents, ServerAddress = ClientSocket.recvfrom(2048)
print("In Reply from server:")
print(fileContents.decode("utf-8"))
# for i in fileContents:
# print(str(i), end='')
ClientSocket.close()
ClientSocket.close()
```

### Server UDP.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(1024)

sentence = sentence.decode("utf-8")

file = open(sentence, "r")

con = file.read(2048)

ServerSocket.sendto(bytes(con, "utf-8"), clientAddress)

print("In Send contents of", end="")  
print(sentence)

Output

Server-UDP.py

The server is ready to receive

Client-UDP.py

Enter file name: Server.py

Reply from server

contents of Server.py

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Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

----- RESTART: C:/Users/sanja/OneDrive/Documents/ClientUDP.py -----

Enter file name:

----- RESTART: C:/Users/sanja/OneDrive/Documents/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")
    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()
```

>>>



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>>>

===== RESTART: C:/Users/sanja/OneDrive/Documents/ServerUDP.py =====

=====

The server is ready to receive  
nSent contents of ServerUDP.py