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DATE / /
PAGE

Sockets (UDP)

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.

ClientUDP.py

```
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentence = input("\n Enter file name: ")

clientSocket.sendto(bytes(sentence, "utf-8"),
                    (serverName, serverPort))

filecontents, serverAddress = clientSocket.recvfrom
                              (2048)

print("\n Reply from Server: \n")
print(filecontents.decode("utf-8"))
# for i in filecontents:
    # print(str(i), end = "")
clientSocket.close()
clientSocket.close()
```

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")
    l = file.read(2048)

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

    print('\n Send contents of', end=' ')
    print(sentence)
    # for i in sentence
      # print(str(i), end='')
    file.close()
```

O/P

```
ServerUDP
The server is ready to receive
 Send contents of ServerUDP.py
The server is ready to receive
```

ClientUDP

```
Enter the filename: ServerUDP.py
Reply from Server:
```

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
```

```
serverSocket.bind(("127.0.0.1", serverPort))
while 1:
    print("The server is ready to recieve")
    sentence, clientAddress= serverSocket.recv
                                    from(2048)
    sentence= sentence.decode("utf-8")
    file= open(sentence, "r")
    l= file.read(2048)
    serverSocket.sendto(bytes(l,"utf-8"),
                        clientAddress)
    print('\n Send contents of', end=' ')
    print(sentence)
    file.close()
>>>
```