

EXPERIMENT 16

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

CODE:

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()
```

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()

```

OUTPUT:

```

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()

>>>

- RESTART: C:\Users\Admin\Desktop\11
The server is ready to receive

Sent contents of  ServerUDP.py
|

```

OBSERVATION:

classmate

Date _____

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LAB-16

AIM-
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.

CODE -

```
Client UDP.py
from socket import *
serverName = "127.0.0.1"
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_DGRAM)
sentance = input("Enter file name: ")
clientSocket.sendto(bytes(sentance, "utf-8"), (serverName,
serverPort))
fileContents, serverAddress = clientSocket.recvfrom(2048)
print("Reply from server: ")
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:
```

```
sentenc, clientAddress = serverSocket.recvfrom(2048)
```

```
sentenc = sentenc.decode("utf-8")
```

```
file = open(sentenc, "r")
```

```
con = file.read(2048)
```

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

```
print('In sent contents of', end = '')
```

```
print(sentenc)
```

```
# for i in sentenc:
```

```
    # print(str(i), end = "")
```

```
file.close()
```