

## Experiment 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.

### Client UDP.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))

precontents, address = clientSocket.recvfrom(2048)
print("\nReply from server")
print(precontents.decode("utf-8"))
clientSocket.close()
```

### Server UDP.py

```
from socket import *
serverPort = 12000
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("127.0.0.1", 12000))
print("Server ready...")
```

while (1):

sentence, addr = serverSocket.recvfrom(2048)

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

file = open(sentence, "r")

con = file.read(2048)

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

print("In sent contents of " + sentence + " end = ' '")

print(sentence)

file.close()

## OUTPUT

Client

~~enter~~ filename: anashor.txt

~~reply~~ from server:

Anashor IBM21CS029

Server

sent contents of:

anashor.txt

ibh  
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## PROGRAM:

### ServerUDP

```
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)
    file.close()
```

### ClientUDP:

```
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, addr = clientSocket.recvfrom(2048)
print("\nReply from Server:\n")
print(filecontents.decode("utf-8"))

clientSocket.close()
```

## OUTPUT :

```
PS C:\Users\anosh\OneDrive\Desktop\CPP in VS\try> python -u "c:\Users\anosh\OneDrive\Desktop\CPP in VS\try\serverUDP (1).py"
The server is ready to receive...

Sent contents of : anoshor.txt
[]
```

```
PS C:\Users\anosh\OneDrive\Desktop\CPP in VS\try> python -u "c:\Users\anosh\OneDrive\Desktop\CPP in VS\try\clientUDP (1).py"
Enter file name: anoshor.txt

Reply from Server:

Hello Everyone! I'm Anoshor
PS C:\Users\anosh\OneDrive\Desktop\CPP in VS\try> []
```