Exp 6 : UDP

Aim : 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.

Code :

server udp.py

```
from socket import *
server Port = 12000
Server Socket = socket. (AF_INET, SOCK_DGRAM)
Server . socket. bind (("127.0.0.1 " , server Port ))
print (" The server is ready to receive");
while 1:
    sentence , client Address = server Socket . recv from (2073)
    sentence = sentence . decode ("UTF - 8 ")
    file = open (sentence ,"n" )
    l = file .read (2048)
    server Socket = send to (bytes (l, "UTF_8 "),
                        client Address ))
    print ("\n . sent contents of end = ' ')
    print (sentence )
    file . close ()
```

Client :

```
from socket import *
server Name = "127. 0. 0.1 "
server Port = 12000 .
```

```
client Socket = socket (AF_INET, SOCK_DGRAM)
Sentence = input ("\n Enter file name)
Client socket . send to ( bytes ( sentence , "UTF-8"
                                    server Name , server Port))


File contents , server Address = client socket .
                                    recv from (2045)


print ("\n Reply from server ")
print (" File contents . decode ("UTF-8"))
  client socket . close ()
  client socket . close ()

OUTPUT:

  server udp.py
  File  server  is  ready to receive
  Sent  contents  of  server udp.py

      Client vdp.py
```

```
PS C:\Users\Lokesh R\Desktop\socket> & "C:/Program Files/Python311/python.exe" "c:/Users/Lokesh R/Desktop/socket/serverudp.py"
The server is ready to receive

Sent contents of  serverudp.py
```

The server is ready to receive

```
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 = '')
  file.close()
```