

PROG 08

```
import java.net.*;

import java.net.InetAddress;

class UDPServer

{

    public static void main(String args[])throws Exception

    {

        DatagramSocket serverSocket = new DatagramSocket(9876);

        byte[] receiveData=new byte[1024];

        byte[] sendData=new byte[1024];

        while(true)

        {

            System.out.println("Server is Up");

            DatagramPacket receivePacket=new

            DatagramPacket(receiveData,receiveData.length);

            serverSocket.receive(receivePacket);

            String sentence=new String(receivePacket.getData());

            System.out.println("RECEIVED:"+sentence);

            InetAddress IPAddress=receivePacket.getAddress();

            int port=receivePacket.getPort();

            String capitalizedSentence=sentence.toUpperCase();

            sendData=capitalizedSentence.getBytes();

            DatagramPacket sendPacket=new

            DatagramPacket(sendData,sendData.length,IPAddress,port);

            serverSocket.send(sendPacket);

        }

    }

}
```

//UDP CLIENT

```
import java.io.*;
```

```
import java.net.*;

import java.net.InetAddress;

class UDPClient

{

public static void main(String[] args)throws Exception

{

BufferedReader inFromUser=new BufferedReader(new

InputStreamReader(System.in));

DatagramSocket clientSocket=new DatagramSocket();

InetAddress IPAddress=InetAddress.getByName("localhost");

byte[] sendData=new byte[1024];

byte[] receiveData=new byte[1024];

System.out.println("Enter the sting to be converted in to Upper case");

String sentence=inFromUser.readLine();

sendData=sentence.getBytes();

DatagramPacket sendPacket=new

DatagramPacket(sendData,sendData.length,IPAddress,9876);

clientSocket.send(sendPacket);

DatagramPacket receivePacket=new

DatagramPacket(receiveData,receiveData.length);

clientSocket.receive(receivePacket);

String modifiedSentence=new String(receivePacket.getData());

System.out.println("FROM SERVER:"+modifiedSentence);

clientSocket.close();

} }
```

