

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();
    }
}
```

