SOURCE CODE

```java
import java.io.*;
import java.net.*;
class UDPServer                    // UDP Server
{
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)
{
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);
}
}
}


import java.io.*;
import java.net.*;
class UDPClient                    // UDP Client
{
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];
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();
}
}
```

<u>OUTPUT</u>

```
student@HGACPL0##:~/Jowin$ javac UDPServer.java
student@HGACPL0##:~/Jowin$ java UDPServer
RECEIVED:hiii


student@HGACPL0##:~/Jowin$ javac UDPClient.java
student@HGACPL0##:~/Jowin$ java UDPClient
hiii
FROM SERVER:HIII
```