

Java Server and client (Datagram Socket UDP)

Server

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Client

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```
Java - Client/src/ClientUDP.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
ClientUDP.java
import java.io.*;
import java.net.*;

public class ClientUDP
{
    public static void main(String[] args)
    {
        try
        {
            int port = 2020;
            InetAddress host = InetAddress.getByName("192.168.1.37");
            String text = "Hi";

            DatagramSocket socketUDP = new DatagramSocket();
            System.out.println("Send: " + text);
            DatagramPacket send = new DatagramPacket(text.getBytes(), text.length(), host, port);
            socketUDP.send(send);

            byte[] bufer = new byte[1000];
            DatagramPacket receive = new DatagramPacket(bufer, bufer.length);
            socketUDP.receive(receive);
            System.out.println("Receive: " + new String(receive.getData()));

            socketUDP.close();
        }
        catch (SocketException e) {}
    }
}

ServerUDP.java
import java.net.*;
import java.io.*;

public class ServerUDP
{
    public static void main (String args[])
    {
        try
        {
            int port = 2020;
            DatagramSocket socketUDP = new DatagramSocket(port);
            byte[] bufer = new byte[1000];

            while (true)
            {
                DatagramPacket send = new DatagramPacket(bufer, bufer.length);
                socketUDP.receive(send);
                String text = new String(send.getData()).trim();
                System.out.println("Receive: " + text);

                System.out.println("Send: " + text.toUpperCase());
                DatagramPacket receive = new DatagramPacket(text.toUpperCase().getBytes(), text.toUpperCase().length());
                socketUDP.send(receive);
            }

            socketUDP.close();
        }
        catch (Exception e) {}
    }
}

Console
<terminated> ClientUDP [Java Application] C:\Program Files\Java\jre1.8.0_71\bin\javaw.exe (13 de mar. de 2016 1:52:11)
Send: Hi
Receive: HI
```