ECHO

```
1 import java.net.*;
2 import java.io.*;
   public class Cliente{
5
       public static void main(String args[]){
6
          if (args.length != 1){
7
             System.err.println ("Syntax - java Cliente hostname");
8
             return;
9
10
          String hostname = args[0];
          InetAddress addr = null;
11
12
          try{
13
             addr = InetAddress.getByName(hostname);
          }catch (UnknownHostException uhe){
14
             System.err.println ("Unable to resolve host");
15
16
             return;
17
18
          try {
19
             String theLine;
20
             InetAddress server = InetAddress.getByName(hostname);
21
             BufferedReader userInput = new BufferedReader(new InputStreamReader(System.in));
22
             DatagramSocket socket = new DatagramSocket();
23
             while (true) {
24
                theLine = userInput.readLine();
25
                if (theLine.equals(".")) break;
26
                byte[] dataOut = new byte[theLine.length()];
27
                dataOut = theLine.getBytes();
28
                DatagramPacket sendPacket = new DatagramPacket(dataOut, dataOut, length, server, 7);
29
                socket.send(sendPacket);
30
                byte[] dataIn = new byte[256];
31
                DatagramPacket receivePacket = new DatagramPacket(dataIn, 256);
32
                socket.receive (receivePacket);
33
                String s = new String(receivePacket.getData(), 0, receivePacket.getLength());
34
                System.out.println(s);
            } // end while
35
36
         } // end try
37
          catch (UnknownHostException e) {System.err.println(e);}
38
          catch (SocketException se) {System.err.println(se);}
39
          catch (IOException e) {System.err.println(e);}
40
       } // end main
41 }
```

Cliente

Servidor

```
import java.net.*;
    import java.io.*;
3
    public class Servidor {
        static DatagramSocket socket;
        public static void main(String args[]){
8
           byte[] buffer = new byte[4096];
9
10
11
          try{
12
              socket = new DatagramSocket(7);
13
          } catch (Exception e){
14
              System.err.println ("Unable to bind port");
15
16
          for (;;){
17
              try{
18
                 DatagramPacket packet = new DatagramPacket(buffer, 4096);
19
                 socket.receive(packet);
20
                 socket.send(packet);
21
             }catch (IOException ioe){
22
                 System.err.println ("Error: " + ioe);
23
24
25
26
```