

UDP CLIENT:

```
import java.net.*;
import java.io.*;
public class UDPClient{
    public static void main(String args[]){
        // args give message contents and server hostname
        DatagramSocket aSocket = null;
        try {
            aSocket = new DatagramSocket();
            byte [] m = args[0].getBytes();
            InetAddress aHost = InetAddress.getByName(args[1]);
            int serverPort = 6789;
            DatagramPacket request =
            new DatagramPacket(m, m.length, aHost, serverPort);
            aSocket.send(request);
            byte[] buffer = new byte[1000];
            DatagramPacket reply = new DatagramPacket(buffer, buffer.length);
            aSocket.receive(reply);
            System.out.println("Reply: " + new String(reply.getData()));
        } catch (SocketException e){System.out.println("Socket: " + e.getMessage());}
        } catch (IOException e){System.out.println("IO: " + e.getMessage());}
        } finally { if(aSocket != null) aSocket.close();}
    }
}
```

UDP SERVER:

```
import java.net.*;
import java.io.*;
public class UDPServer{
    public static void main(String args[]){
        DatagramSocket aSocket = null;
        try{
            aSocket = new DatagramSocket(6789);
            byte[] buffer = new byte[1000];
            while(true){
                DatagramPacket request = new DatagramPacket(buffer, buffer.length);
                aSocket.receive(request);
                System.out.println("CONNECTING");
                DatagramPacket reply = new DatagramPacket(request.getData(),
                request.getLength(), request.getAddress(), request.getPort());
                aSocket.send(reply);
            }
        } catch (SocketException e){System.out.println("Socket: " + e.getMessage());}
        } catch (IOException e) {System.out.println("IO: " + e.getMessage());}
        } finally {if (aSocket != null) aSocket.close();}
    }
}
```

OUTPUT:

```
info03@info03-HP-280-G2-MT:~$ cd Desktop
info03@info03-HP-280-G2-MT:~/Desktop$ javac UDPServer.java
^[[Ainfo03@info03-HP-280-G2-MT:~/Desktop$ java UDPServer
```

```
info03@info03-HP-280-G2-MT:~$ cd Desktop
info03@info03-HP-280-G2-MT:~/Desktop$ javac UDPClient.java
info03@info03-HP-280-G2-MT:~/Desktop$ java UDPClient pqr 10.11.0.115
Reply: pqr
info03@info03-HP-280-G2-MT:~/Desktop$ java UDPClient pqr 10.11.0.115
```