Consume.java

```
import java.io.*;
import java.net.*;

public class Consumer {
  public static void main(String args[]) { // args[0]: message contents,
                                           // args[1]: destination hostname
    DatagramSocket aSocket = null;
    try {
      aSocket = new DatagramSocket();
      byte[] message = args[0].getBytes();
      InetAddress aHost = InetAddress.getByName(args[1]);
      int serverPort = 6789; // agreed port

      while (true) { //while loop to continously ask for replies
          DatagramPacket request = new DatagramPacket(message, message.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();
    }
  }
}
```

Producer.java

```
import java.net.*;
import java.io.*;

public class Producer {
  public static void main(String args[]) {
    DatagramSocket aSocket = null;
    try {
      aSocket = new DatagramSocket(6789); // create socket at agreed port
      byte[] buffer = new byte[1000];

      byte[] outbuffer = new byte[1000]; //buffer to store created numbers
```

```
      int item = 0; //initialize number to send to Consumer

      while (true) {
        item++; //creating a number to send

        DatagramPacket request = new DatagramPacket(buffer, buffer.length);
        aSocket.receive(request);

        outbuffer = Integer.toString(item).getBytes(); //create numbers to send

        DatagramPacket reply = new DatagramPacket(outbuffer, outbuffer.length,
//reply contains the number to send
            request.getAddress(), request.getPort());
            System.out.println("Send: " + new String(reply.getData())); //prints out
the number to send
        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();
    }
  }
}
```