

```
import java.net.Socket;
import java.net.ServerSocket;
import java.io.IOException;
import java.util.Map;
import java.util.HashMap;
import java.util.Random;
import java.io.ObjectOutputStream;

public class SerialS {
    public static void main (String[] args) {
        try {
            ServerSocket ssock = new ServerSocket (port);

            Map<Integer,String> map = new HashMap<Integer,String>();
            Random r = new Random();

            while (true) {
                map.clear();
                Socket sock = ssock.accept(); // accept() blocks

                int how_many = Math.abs(r.nextInt()) % 5; // rand [0..4]
                for (int i = 0; i < how_many; i++) {
                    int n = r.nextInt();
                    map.put (new Integer(n), Integer.toHexString(n));
                }
                System.out.println(map);

                ObjectOutputStream out = new ObjectOutputStream (sock.getOutputStream());
                out.writeObject (map);
                out.flush();

                sock.close();
            }
        } catch (IOException e) {
            System.err.println (e);
        }
    }

    private static final int port = 9876;
}
```