```
* To change this template, choose Tools | Templates
* and open the template in the editor.
package identity server;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectInputStream;
import java.io.ObjectOutput;
import java.io.ObjectOutputStream;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalBlockSizeException;
/**
* @author rapha
 */
public class Utils {
   public static byte[] cryptObject(Object o, Cipher cryptor)
            throws IOException, IllegalBlockSizeException, BadPaddingException
    {
        ByteArrayOutputStream bos = new ByteArrayOutputStream();
        ObjectOutput out = new ObjectOutputStream(bos);
        out.writeObject(o);
        byte[] bytes = bos.toByteArray();
        out.close();
        bos.close();
        return cryptor.doFinal(bytes);
   }
   public static Object decryptObject(byte[] bytes, Cipher decryptor)
            throws IOException, ClassNotFoundException,
            IllegalBlockSizeException, BadPaddingException
    {
        ByteArrayInputStream bis = new ByteArrayInputStream(
            decryptor.doFinal(bytes)
        ObjectInput in = new ObjectInputStream(bis);
        Object o = in.readObject();
        bis.close();
        in.close();
        return o;
   }
   public static byte[] hashPassword(String password, int clientSalt,
            int serverSalt) throws NoSuchAlgorithmException
    {
        MessageDigest md = MessageDigest.getInstance("SHA-1");
        md.update(password.getBytes());
        md.update(String.valueOf(clientSalt).getBytes());
        md.update(String.valueOf(serverSalt).getBytes());
        return md.digest();
   }
}
```

