Des加密算法

des加密算法,是一个对称的加密算法,目前被广泛应用,所以打算写一个demo。

```
package com.dao;
import com.sun.org.apache.xerces.internal.impl.dv.util.Base64;
import sun.misc.BASE64Decoder;
import sun.misc.BASE64Encoder;
import javax.crypto.Cipher;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.DESKeySpec;
import java.io.IOException;
import java.security.SecureRandom;
 * Created by linSir on 2017/6/22.des加密算法
public class Test {
      public static void main(String args[]) throws IOException {
            //byte[] result = Test.encrypt(str.getBytes(),password);
            //BASE64Encoder base64encoder = new BASE64Encoder();
            //String encode=base64encoder.encode(result);
            String miwen = "ZraEmkLPeVT1CBGRpcbXTfVRhUWt6riMMh8UoWcVEClwLcCRuJoMmZW+IS5MYshasXVUu1VIFeqe\
                         "CNLB3zf0KYfB5H0x0+GUtXQmtQyG0x5tQSyHSWOdQVyEj7mYFw4h6uFhN94ifqZq8ohpUduWZBqU\n"
                         "EN3B4akKt8+oPQPFv1GvrFucOmrfDpyTy+YuLZZOn1PA5AYTa2TnC++ZPPo62XW4O2EZOqGXcuO1\n" +
                         "3zHfq8mmtdQ7DbGN2JIBNLL/EN97o7pHRkVNbB9/eHElf37MqhHZWTUfilvRtSTwaWkW3IR2aWzj\n" +
                         "GQXrdqErVUdcTvLH2fGnInYU6XAtwJG4mgyZG60ZZ89Yg9iOcWG4GruJvFEa/UQNDmbS+vyvWpP/\n"
                         "75zOiDos5s5yeJUcUaJt+SkUR7z5yr7bbK/DHkS5aEvfNI/nL4Z4DrGN++9Uzv34XD4ZTg0csEuL\n"
                         \verb"96+LAUKED43" iaJUo6wruiZ/7KmpvP5p3" ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \verb|\n"| ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| ii5p03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ55YFBCz3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCZ3dZg8OSGIlKj+7uaYF \| iip03Z1ymscmTlqUTZ5YFBCAZIymscmTlqUTZ5YFBCAZIYMScally \| iip03Z1ymscmTlqUTZ5YFBCAZIYMScally \| iip03Z1ymscmTlqUTZ5YFBCAZIYMScally \| iip03Z1ymscally \| iip03Z1ymscally \| iip03Z1ymscally \| iip03Z1ymscally \| iip03Z1ymsc
                         "yLK6+Hx0+GQ2weK2q95kgf8zUs1igyhu1VdMGHbp/Ma3DyJIo6wPgwRlpFedCq0/w7ECGGPHfLUb\n"
                         "eNmBK3nCqqN7TABiLfHfzR8mBjjMcJQ1MtGGwZB6H6zAGkcSEQqHgsTbnG6t8GvS06t9eepMn6VG\n"
                         "caq19CPEthsSFziTH1X/qM5g/yCwbN9+qClQ0z5VI/ZGUAcs9Cz3WjimPGKNyLa+AKgUE7dh4sFr\\ \verb|\n"|
                         "vQGrlRxRom35KRRRd/VE9Goz3EAcQQ1NhiDMYobeoH0as5XkG3hTF2zZyfn/QJZnNwh4GxCLkZPS\n"
                         "VKFdg0bpAy3irJouw+IG69DUewM4W4a1u7h8i76pCLLxP5gIYqKqKgm97itSQe8ZV3qbG9gNxMrg\n"
                         "Q1Prg0CgHVrFy4J0c9rTCmLnieHBG/xVwI5AOp42NUOk/Ycc7EIuzQ4tKEGS7RjmcpKEUMkog5c5\n" +
                         "k693mGsn2VUQNeRPmfrcN7Ra+L18fvKMs1ESEjrUR/GpHwg6UcCBfBh8r/B5bYdoV2ik02liSVzX\n" +
                         "p6dacHJIz1u6+TEr9OfinHoMzBwXETOkAnPOt/YdwGw8/MM41w==";
            BASE64Decoder base64decoder = new BASE64Decoder();
            byte[] encodeByte = base64decoder.decodeBuffer(miwen);
            //直接将如上内容解密
            try {
                  byte[] decryResult = Test.decrypt(encodeByte, "");
                  System.out.println("解密后: " + new String(decryResult));
            } catch (Exception e1) {
                  el.printStackTrace();
      }
       * 加密
      public static byte[] encrypt(byte[] datasource, String password) {
                  SecureRandom random = new SecureRandom();
                  DESKeySpec desKey = new DESKeySpec(password.getBytes());
                  //创建一个密匙工厂,然后用它把DESKeySpec转换成
                  SecretKeyFactory keyFactory = SecretKeyFactory.getInstance("DES");
                  SecretKey securekey = keyFactory.generateSecret(desKey);
                   //Cipher对象实际完成加密操作
                  Cipher cipher = Cipher.getInstance("DES");
                   //田家単知松ルで;〜ト〜▽対角
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//用部配別知化CIPIIELNI家
        cipher_init(Cipher.ENCRYPT_MODE, securekey, random);
        //现在, 获取数据并加密
        //正式执行加密操作
       return cipher.doFinal(datasource);
    } catch (Throwable e) {
        e.printStackTrace();
    return null;
}
 * 解密
*/
private static byte[] decrypt(byte[] src, String password) throws \bf Exception { // \bf DES算法要求有一个可信任的随机数源
    SecureRandom random = new SecureRandom();
    // 创建一个DESKeySpec对象
    DESKeySpec desKey = new DESKeySpec(password.getBytes());
    // 创建一个密匙工厂
    SecretKeyFactory keyFactory = SecretKeyFactory.getInstance("DES");
    // 将DESKeySpec对象转换成SecretKey对象
    SecretKey securekey = keyFactory.generateSecret(desKey);
    // Cipher对象实际完成解密操作
    Cipher cipher = Cipher.getInstance("DES");
    // 用密匙初始化Cipher对象
    cipher.init(Cipher.DECRYPT_MODE, securekey, random);
    // 真正开始解密操作
    return cipher.doFinal(src);
```