Implementation of Digital signature using RSA Digital Signature

import java.security.KeyPair;

import java.security.KeyPairGenerator;

import java.security.Signature;

import sun.misc.BASE64Encoder;

public class digijava {

public static void main(String[] args) throws Exception { // TODO code application logic here

KeyPairGenerator kpg = KeyPairGenerator.getInstance("RSA"); kpg.initialize(1024);

KeyPair Pair = kpg.genKeyPair();

byte[] data = "Sample Text".getBytes("UTF8"); Signature sig = Signature.getInstance("MD5WithRSA");

sig.initSign(Pair.getPrivate());

sig.update(data);

byte[] signatureBytes = sig.sign();

System.out.println("Signature: \n" + new BASE64Encoder().encode(signatureBytes)); sig.initVerify(Pair.getPublic());

sig.update(data);

System.out.println(sig.verify(signatureBytes));

}

}

**OUTPUT :**

Signature:

imwaKe99tkM6H6hiiP0rubmb/MrYJZLiwLdRSjslF2KlA5B23az5M2LKftQFCB+NH

Ce5F5/YfN8OsNSNLtucrrZTah0SrdWSzdGCOfYLdUZmPQ72j1SkLhYspsTsUb/U6 FPSYT4QebNSYobDtjKujkHdRimHI9TO4lLuqVQRdWU= true