Exp No. – 9

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import java.security.KeyPair;

import java.security.KeyPairGenerator; import java.security.PrivateKey; import java.security.Signature;

import java.util.Scanner; public class DigitalSignature {

public static void main(String args[]) throws Exception { Scanner sc = new Scanner(System.in);

System.out.println("20141272 Ruturaj kadam \nEnter some text "); String msg = sc.nextLine();

KeyPairGenerator keyPairGen = KeyPairGenerator.getInstance("DSA"); keyPairGen.initialize(2048);

KeyPair pair = keyPairGen.generateKeyPair(); PrivateKey privKey = pair.getPrivate();

Signature sign = Signature.getInstance("SHA256withDSA"); sign.initSign(privKey);

byte[] bytes = "msg".getBytes(); sign.update(bytes);

byte[] signature = sign.sign();

System.out.println("\nDigital signature for given text: "+new String(signature, "UTF8")); System.out.println("Digital Signature is Verified");

}}

Output:

