**Name: Pradyumna Bhosale**

**Roll Number : 20141224**

# **Experiment No: 9**

package Exp;

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("20141224 Pradyumna Bhosale \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();

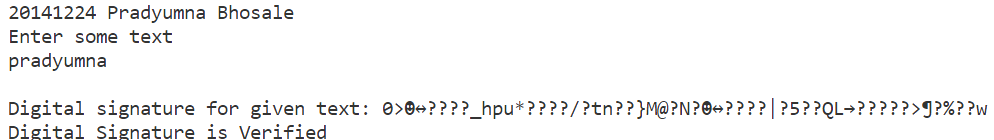
sign.update(bytes);

byte[] signature = sign.sign();

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

System.out.println("Digital Signature is Verified");

}

}