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**Roll Number : 20141224**

# **Experiment No: 8**

package Exp;

import java.math.BigInteger;

import java.security.\*;

public class ExpSHA1 {

public static String encryptThisString(String input)

{

try {

MessageDigest md = MessageDigest.getInstance("SHA-1");

byte[] messageDigest = md.digest(input.getBytes());

BigInteger no = new BigInteger(1, messageDigest);

String hashtext = no.toString(16);

while (hashtext.length() < 32) {

hashtext = "0" + hashtext;

}

return hashtext;

}

catch (NoSuchAlgorithmException e) {

throw new RuntimeException(e);

}

}

public static void main(String args[]) throws

NoSuchAlgorithmException

{

System.out.println("Pradyumna Bhosale 20141224");

System.out.println("HashCode Generated by SHA-1 is: ");

String s1 = "Pradyumna";

System.out.println("\n" + s1 + " : " + encryptThisString(s1));

}

}

**Output:**

