// Java program to calculate SHA-1 hash value

import java.math.BigInteger;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

public class GFG {

public static String encryptThisString(String input)

{

try {

// getInstance() method is called with algorithm SHA-1

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

// digest() method is called

// to calculate message digest of the input string

// returned as array of byte

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

BigInteger no = new BigInteger(1, messageDigest);

String hashtext = no.toString(16);

// Add preceding 0s to make it 32 bit

while (hashtext.length() < 32) {

hashtext = "0" + hashtext;

}

// return the HashText

return hashtext;

}

catch (NoSuchAlgorithmException e) {

throw new RuntimeException(e);

}

}

// Driver code

public static void main(String args[]) throws

NoSuchAlgorithmException

{

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

String s1 = "GeeksForGeeks";

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

String s2 = "hello world";

System.out.println("\n" + s2 + " : " + encryptThisString(s2));

}

}