**SHA-1**

**Program:**

import java.math.BigInteger;

import java.util.\*;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

public class sha1 {

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);

}

}

// Driver code

public static void main(String args[]) throws

NoSuchAlgorithmException

{

System.out.println("Enter the string to encrypt");

//String s1 = "GeeksForGeeks";

String s1;

Scanner scan=new Scanner(System.in);

s1=scan.nextLine();

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

}

}

**ScreenShot:**

