**Practical-3A**

**Thoery:-**

* What is mac? What is the need for mac?
* What is md-5?
* What is SHA-1?

**Code:**

package com.mycompany.tycs.rehmah;

import java.math.BigInteger;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

public class Prac3 {

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);

return hashtext;

}

catch(NoSuchAlgorithmException e){

throw new RuntimeException(e);

}

}

public static void main(String[] args) {

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

String s1 = "hello world";

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

}

}