**Practical no -7(a) Roll no -10,32**

import java.security.MessageDigest;

import javax.xml.bind.DatatypeConverter;

public class MD5 {

public static String getHash(byte[] inputBytes,String algorithm)

{

String hashvalue="";

try{

MessageDigest messagedigest=MessageDigest.getInstance(algorithm);

messagedigest.update(inputBytes);

byte [] digestedBytes=messagedigest.digest();

hashvalue=DatatypeConverter.printHexBinary(digestedBytes).toLowerCase();

}

catch(Exception e){

System.out.println(e);

}

return hashvalue;

}

public static void main(String []args){

String somestring="this is some String";

System.out.println(getHash(somestring.getBytes(),"SHA-512"));

}

}

**Output :**

**D:\TYCS\INS>javac MD5.java**

**D:\TYCS\INS>java MD5**

**1b71957de26bf700071b984149fbf5323ec3f9d175ac921e1c38929bf630626616ba98cf30c3c80b8da8a04068a933d79e99803c34d72053b226d31cfbbc5920**

**Practical no -7(b)**

import java.io.File;

import java.nio.file.Files;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

import javax.xml.bind.DatatypeConverter;

public class MD5image {

public static String getHash(byte[] inputBytes,String algorithm) throws NoSuchAlgorithmException{

String hashvalue="";

try{

MessageDigest messagedigest=MessageDigest.getInstance(algorithm);

messagedigest.update(inputBytes);

byte[] digestedBytes=messagedigest.digest();

hashvalue=DatatypeConverter.printHexBinary(digestedBytes).toLowerCase();

}

catch(Exception e)

{

}

return hashvalue;

}

public static void main(String[] args) throws NoSuchAlgorithmException {

try{

File image=new File("D:\\TYCS\\INS\\java.jpg");

byte [] imageBytes=Files.readAllBytes(image.toPath());

System.out.println(getHash(imageBytes,"MD5"));

}

catch(Exception e){

}

}

}

**Output:**

**D:\TYCS\INS>javac MD5image.java**

**D:\TYCS\INS>java MD5image**

**94daa09bbb90ba93ad19369c23be50b6**