Date:16/10/2020

**Practical no 8**

**AIM:** Write a program to calculate HMAC-SHA1 Signature

**Code:-**

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| --- |
| package prac8;  import java.util.Formatter;  import javax.crypto.\*;  import javax.crypto.spec.SecretKeySpec;  public class HmacSha1 {  private static String toHexString(byte[] bytes){  Formatter formatter = new Formatter();  for(byte b : bytes)  {  formatter.format("%02x" , b);  }  return formatter.toString();  }    public static String calculateHMAC(String data , String key) throws Exception  {  SecretKeySpec signingKey = new SecretKeySpec(key.getBytes() , "HmacSHA1");  Mac mac = Mac.getInstance("HmacSHA1");  mac.init(signingKey);  return toHexString(mac.doFinal(data.getBytes()));  }    public static void main(String[] args) throws Exception  {  String hmac = calculateHMAC("krunal", "dhavle");  System.out.println("HMAC-SHA1 ------------------------------");  System.out.println("performed by krunal dhavle 713");  System.out.println(hmac);  }  } |

**Output:-**

