**PRACTICAL NO: 7**

**AIM: Write a program to implement HMAC SHA1.**

**CODE:**

import java.security.SecureRandom;

import javax.crypto.Mac;

import javax.crypto.spec.SecretKeySpec;

import java.util.Scanner;

public class HMAC {

public static void main(String[] args)throws Exception

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter Data");

String data=sc.nextLine();

SecureRandom rnd=new SecureRandom();

byte[] k=new byte[100];

rnd.nextBytes(k);

SecretKeySpec key =new SecretKeySpec(k,"HMACSHA1");

Mac m=Mac.getInstance("HmacSHA1");

m.init(key);

m.update(data.getBytes());

byte[] result=m.doFinal();

System.out.println("Signature using HMACSHA1:"+new String(result));

}

}

**OUTPUT:**

