**OBJECT ORIENTED PROGRAMMING LAB**

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**Roll No: 48**

**Batch: B**

**Date: 31/05/22**

**Experiment No.: 9**

**Aim**

Write a Java program to compare two hash set.

**PROCEDURE**

import java.util.HashSet;

import java.util.Scanner;

import java.util.Set;

public class Hash\_Set {

public static void main(String[] args) {

Set<String> set1 = new HashSet<String>();

Set<String> set2 = new HashSet<String>();

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number of elements in first set: ");

int n=sc.nextInt();

System.out.println("\nEnter the elements of first set: ");

for(int i =0;i<n;i++)

{

String st=sc.next();

set1.add(st);

}

System.out.println("\nEnter the number of elements in second set: ");

int n1=sc.nextInt();

System.out.println("\nEnter the elements of second set: ");

for(int i =0;i<n1;i++)

{

String st=sc.next();

set2.add(st);

}

System.out.println("\nHash Set 1: " + set1);

System.out.println("\nHash Set 2: " + set2);

Set<String> union = new HashSet<String>(set1);

union.addAll(set2);

System.out.print("\nUnion of two Sets:");

System.out.println(union);

Set<String> intersection = new HashSet<String>(set1);

intersection.retainAll(set2);

System.out.print("\nIntersection of two Sets:");

System.out.println(intersection);

Set<String> difference = new HashSet<String>(set1);

difference.removeAll(set2);

System.out.print("\nDifference of set1 from set2:");

System.out.println(difference);

}

}

**Output**

