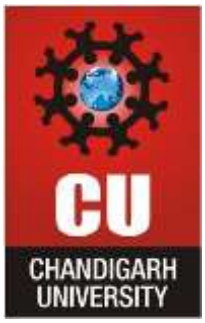
CHANDIGARH UNIVERSITY

UNIVERSITY INSTITUTE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Yash Kumar	**Submitted To: Ma'am Neeru Sharma**
Subject Name	**Project based learning in Java lab**
Subject Code	**20CSP-321**
Branch	**Computer Science**
Semester	**5th Semester**

LAB INDEX

Sr. No.	Program	Date	Evaluation				Sign.
			LW (12)	VV (10)	FW (8)	Total (30)	
01.	Create a program to show the usage of Sets of Collection interface.	02/09/ 2022					

Experiment Title - 05

Student Name: Yash Kumar **UID: 20BCS9256**
Branch: CSE **Section/Group: 616 'B'**
Semester: 5th **Date of Performance: 01/09/2022**
Subject Name: Project based learning in Java lab
Subject Code: 20CSP-321

1. Aim

Create a program to show the usage of Sets of Collection interface.

2. Software Requirements: Eclipse IDE

3. Code

```
package exp.five;

import java.util.Arrays;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class Main {

	public static void main(String[] args) {
		Set<Integer> s1 = new HashSet<Integer>();
		s1.add(4);
		s1.add(2);
		s1.add(1);
		s1.add(1);
		s1.add(5);
```

```
        Integer[] arr = { 7, 1, 2, 3, 1, 5 };
        Set<Integer> s2 = new HashSet<Integer>();
        s2.addAll(Arrays.asList(arr));

        System.out.println("s1: " + s1);
        System.out.println("s2: " + s2);

        System.out.println("\ns1 == s2: " + s1.equals(s2));

        Set<Integer> union = new HashSet<Integer>(s1);
        union.addAll(s2);
        System.out.println("\nUnion of s1 & s2: " + union);

        System.out.println("\nRemove 2 from set s1.");
        s1.remove(2);
        System.out.println("s1: " + s1);

        Iterator newData = s1.iterator();
        System.out.println("\nPrinting values using Iteratore!");
        System.out.print("s1: ");
        while (newData.hasNext()) {
            System.out.print(newData.next() + " ");
        }

        System.out.println("\n\nSize of s2: " + s2.size());
        System.out.println("Clearing elemets from s2!");
        s2.clear();
        System.out.println("Whether set2 is empty: " + s2.isEmpty());
        s2.clear();

    }

}
```

4. Output

Learning outcomes (What I have learnt):

1. Learn about set.
2. Learn about how to initialize the set.
3. Learn about how to print the set.
4. Learn usage of iterator in set.
5. Learn to clear the set.