# LAB INDEX

NAME: Vivek Kumar
UID: 21BCS8129
SECTION: WM-20BCS-616/A

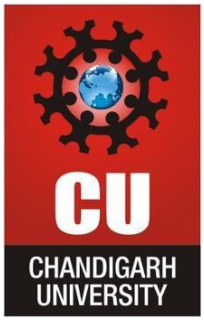
SUBJECTNAME: Project Based Learning in Java Lab
SUBJECTCODE: 20CSP-314

| Sr. No | Program | Date | Evaluation | | | | Sign |
|---|---|---|---|---|---|---|---|
| | | | LW (12) | VV (10) | FW (8) | Total (30) | |
| 1 | Create an application to save the employee information using arrays. | 09-08-2022 | | | | | |
| 2 | Design and implement a simple inventory control system for a small video rentalstore. | 23-08-2022 | | | | | |
| 3 | Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance. | 02-09-2022 | | | | | |
| 4 | Create a program to show the usage of Sets of Collection interface. | 27-09-2022 | | | | | |
| 5 | Create a program to set view of Keys from Java Hashtable. | 27-09-2022 | | | | | |
| 6 | Write a Program to perform the basic operations like insert, delete, display and search in list. List contains String object items where these operations are to be performed. | | | | | | |
| 7 | Create a menu based Java application with the following options.1.Add an Employee2.Display All3.Exit If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file. If option 2 is selected, the application should display all the employee details. If option 3 is selected the application should exit. | | | | | | |
| 8 | Create a palindrome creator application for making a longest possible palindrome out of given input string. | | | | | | |
| 9 | Create a Servlet/ application with a facility to print any message on web browser. | | | | | | |
| 10 | Create JSP application for addition, multiplication and division. | | | | | | |

**CHANDIGARH UNIVERSITY**

**UNIVERSITY INSTITUTE OF NGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**




| **Submitted By:** Vivek Kumar(21BCS8129) | **Submitted To:** Neeru Sharma(E12950) |
|---|---|
| **Subject Name** | Project Based Learning in Java Lab |
| **Subject Code** | 20CSP-321 |
| **Branch** | Computer Science and Engineering |
| **Semester** | 5th |

# Experiment - 5

**Student Name: Vivek Kumar** **UID: 21BCS8129**
**Branch: BE-CSE(LEET)** **Section/Group:20BCS-WM-616/A**
**Semester: 5th** **Date of Performance: 27/09/2022**
**Subject Name: Project Based Learning in Java Lab** **Subject Code: 20CSP-321**

**1. Aim/Overview of the practical:**
Create a program to set view of Keys from Java Hashtable.

**2. Task to be done/ Which logistics used:**
Write the program to create an application to perform operation on Hashtable.

**3. Software Requirements (For programming-based labs):**

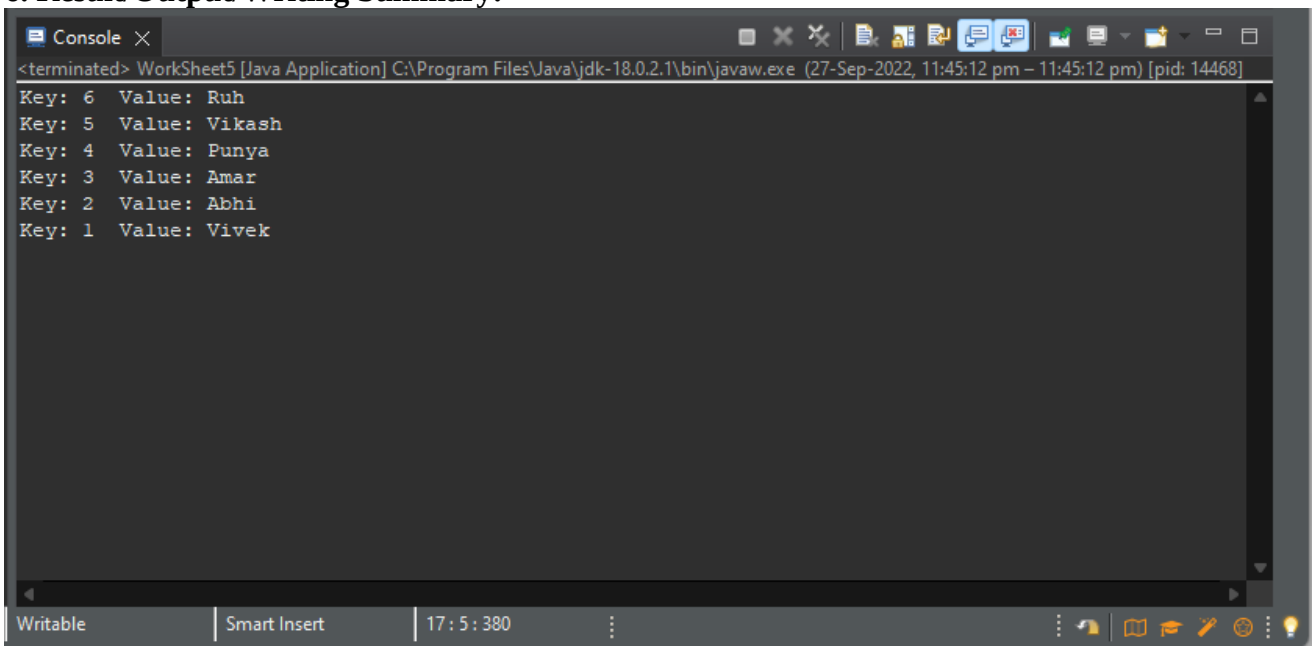
- JDK-8 or any
- Eclipse-IDE for Java

**4. Steps for experiment/practical/Code:**

```
package unit2;
import java.util.Enumeration;
import java.util.Hashtable;

public class WorkSheet5 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Hashtable<Integer, String> ht = new Hashtable<>();
		ht.put(1, "Vivek");
		ht.put(2, "Abhi");
		ht.put(3, "Amar");
		ht.put(4, "Punya");
		ht.put(5, "Vikash");
		ht.put(6, "Ruh");

		Enumeration<Integer> keys = ht.keys();
		Enumeration<String> values = ht.elements();

		while(keys.hasMoreElements() && values.hasMoreElements()){
		   System.out.println("Key: "+keys.nextElement()+"\tValue: "+values.nextElement());
		}
	}

}
```

**5. Observations/Discussions/ Complexity Analysis:**
Here we have created the Hashtable and Enumeration and Data inserted to Hashtable with the key pairs, performed display operation.

**6. Result/Output/Writing Summary:**




**Learning outcomes (What I have learnt):**

1. Learnt How to create the Hashtable and insert the values to it.
2. Hashtable manipulation concept understood.
3. Learnt the concept of Enumeration.
4. Learnt concept of while and Hashtable iteration.
5. Understood the concept of AND operator '&&'.

**Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):**

| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
|---|---|---|---|
| 1. | Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day). | | |
| 2. | Post-Lab Quiz Result. | | |
| 3. | Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions. | | |
| | Signature of Faculty (with Date): | Total Marks Obtained: | |