



CHANDIGARH UNIVERSITY

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UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name:

Subject Code: 20CSP 321

Submitted to:

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Submitted by:

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UID:20BCS1812

Section:20BCS_WM-702

Group: A

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Ex. No	List of Experiments	Date	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Remarks/Signature
1.1	Create an application to save the employees information using arrays	16/8/22					
1.2	Design and implement a simple inventory control system for a small video rental store	26/8/22					
1.3	Calculate interest based on the type of the account and the status of the account holder. The rates of interest changes according to the amount (greater than or less than 1 crore), age of account holder (General or Senior citizen) and number of days if the type of account is FD or RD.	6/9/22					
2.1	Create a program to set view of Keys from Java Hashtable.	16/9/22					
2.2	Create a program to show the usage of set of collection interface.	4/10/22					
2.3	Write a program to perform the basic operations like insert delete display and search in list. List contains string object items where the operation are to be performed.	30/9/22					
2.4	Create a menu based java application with the following options I) add an employee ii) display all iii) exit	11/10/22					
3.1							

3.2							
3.3							

Experiment 2.4

Student Name:Rajiv Paul

UID:20BCS1812

Branch:CSE

Section/Group:702A

Semester: 5th

Date of Performance: 11/10/2022

Subject Name:PBLJ Lab

Subject Code: 20CSP 321

1. Aim:

To create a menu based java application with the following options

- i) add an employee
- ii) display all
- iii) exit

2. Requirements:

Software:

IntelliJ IDEA, JDK, MacOS, Netbeans

Hardware:

Macbook(Laptop)

Ram:4GB(Minimum)

Processor: M1

3. Code:

```
package com.PBLJ;

import java.util.*;
class Employee{
    int employeeId;
    String employeeName;
    int employeeAge;
    int employeeSalary;
```

```

Employee(int id, String name, int age, int salary){
    employeeId=id;
    employeeName=name;
    employeeAge=age;
    employeeSalary=salary;
}
}

```

```

public class Project7 {
    public static void main(String[] args) {
        ArrayList<Employee> data = new ArrayList<>();
        Scanner sc = new Scanner(System.in);
        System.out.println("Select one of the following options!!");
        Boolean quit = false;

        while (true) {
            System.out.println("\n1. Add an Employee");
            System.out.println("2. Display All");
            System.out.println("3. Exit");
            System.out.print("Choose Options: ");
            int option_selected = sc.nextInt();
            switch (option_selected) {
                case 1: {
                    System.out.println();
                    System.out.print("Please enter employee id: ");
                    boolean flag=true;
                    int id=sc.nextInt();
                    for(Employee e:data){
                        if(e.employeeId==id){
                            flag=false;

                            System.out.println("Employee id already exist!");
                        }
                    }
                    if(flag){
                        System.out.print("Please enter employee name: ");
                        sc.nextLine();
                        String name= sc.nextLine();
                        System.out.print("Please enter employee age: ");
                        int age=sc.nextInt();
                        System.out.print("Please enter employee salary: ");
                        int salary=sc.nextInt();
                        data.add(new Employee(id, name, age, salary));
                    }
                    break;
                }
                case 2: {
                    System.out.println("\n-----Report-----");

```

```

        System.out.println("S.No "+employeeId+ " "+employeeName
        "+employeeAge "+employeeSalary ");
        int i=1;
        for(Employee e:data){
            System.out.println(i+" \t\t"+e.employeeId+"
            \t\t"+e.employeeName+" \t\t\t"+e.employeeAge+" \t\t\t"+e.employeeSalary);
            i++;
        }
        break;
    }
    case 3: {
        System.out.println();
        System.out.println("Exiting the system!");
        quit = true;
        break;
    }
    default:{
        System.out.println("Invalid number! Please enter valid
number.");
    }
}
if (quit)
    break;
}
}
}

```

4. Output:

```
1. Add an Employee
2. Display All
3. Exit
Choose Options: 1

Please enter employee id: 1001
Please enter employee name: Rohan
Please enter employee age: 34
Please enter employee salary: 300000

1. Add an Employee
2. Display All
3. Exit
Choose Options: 1

Please enter employee id: 1002
Please enter employee name: Raju
Please enter employee age: 33
Please enter employee salary: 250000

1. Add an Employee
2. Display All
3. Exit
Choose Options: 2

-----Report-----
S.No  employeeId+  employeeName  employeeAge  employeeSalary
1      1001        Rohan         34           300000
2      1002        Raju          33           250000

1. Add an Employee
2. Display All
3. Exit
Choose Options: 1
```

Learning outcomes (What I have learnt):

1. Learnt about Collection .
2. Learnt how to implement Collections .
3. Learnt about ArrayList.
4. Leant how to implement ArrayList and its methods.