



LAB INDEX

NAME: Vivek Kumar SUBJECTNAME: Project Based Learning in Java Lab

UID: 21BCS8129 SUBJECTCODE: 20CSP-314

SECTION: WM-20BCS-616/A

Sr. No	Program	Date	Evaluation				Sign
			LW (12)	VV (10)	FW (8)	Total (30)	
1	Create an application to save the employee	09-08-2022					
	information using arrays.						







CHANDIGARH UNIVERSITY UNIVERSITY INSTITUTE OF NGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted Vivek Kumar(·
Subject Name	Project Based Learning in Java Lab
Subject Code	20CSP-321
Branch	Computer Science and Engineering
Semester	5 th







Experiment - 1

Student Name: Vivek Kumar UID: 21BCS8129

Branch: BE-CSE(LEET) Section/Group: WM-20BCS-

616/A

Semester: 5th Date of Performance:

09/08/2022

Subject Name: Project Based Learning in Java Lab Subject Code: 20CSP-321

1. Aim/Overview of the practical:

Create an application to save the employee information using arrays.

2. Task to be done/ Which logistics used:

Write the program to create an application to save the employee information using arrays.

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

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

4. Steps for experiment/practical/Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
```

```
public class Employee {
 String empId;
 String depName;
 String empDesignation;
 String empName;
 String dateJoin;
 int basic;
 int hra:
 int it;
 char designationCode;
 public static int da;
 public Employee(
  String empId,
  String depName,
  String empDesignation,
  String empName,
  String dateJoin,
  int basic.
  int hra,
  int it.
  char designationCode
 ) {
  this.empId = empId;
  this.depName = depName;
  this.empDesignation = empDesignation;
```





```
this.empName = empName;
 this.dateJoin = dateJoin;
 this.basic = basic;
 this.hra = hra;
 this.it = it;
 this.designationCode = designationCode;
public static int da(char designationCode) {
 switch (designationCode) {
  case 'e':
     da = 20000;
     break;
    }
  case 'c':
     da = 32000;
     break;
    }
  case 'k':
     da = 12000;
     break;
    }
  case 'r':
     da = 15000;
     break;
  case 'm':
     da = 40000;
     break;
  default:
   throw new IllegalStateException("Unexpected value: " + designationCode);
 return da;
public static int salary(int basic, int hra, int da, int it) {
 int salary = basic + hra + da - it;
 return salary;
```





```
public static void details(
  String empId,
  String empName,
  String depName,
  String empDesignation,
  int salary
 ) {
  System.out.println(
   "Emp Id\t\tEmployee Name\tDepartment\t\tDesignation\t\tSalary"
  System.out.println(empId +"\t\t"+ empName +"\t\t"+ depName +"\t\t\t"+ empDesignation +"\t\t"+
salary);
 }
 public static void main(String[] args) throws IOException {
       boolean val = true;
  BufferedReader bufferedReader = new BufferedReader(
   new InputStreamReader(System.in)
  );
  String empId;
  int c = 0;
  Employee[] employees = new Employee[3];
  employees[0] =
   new Employee(
    "1001",
    "R&D",
    "Engineer",
    "Vivek",
    "1/04/2022",
    20000,
    8000.
    3000,
    'e'
   );
  employees[1] =
   new Employee(
    "1002",
    "PM",
    "Consultant",
    "Ruhma",
    "23/08/2022",
    30000,
    12000,
    9000,
    'c'
```







```
employees[2] =
 new Employee(
  "1003",
  "Acct",
  "Accountent",
  "Abhi",
  "12/11/2008",
  10000,
  8000.
  1000,
  'k'
 );
while(val) {
       System.out.println("Enter the employee ID ");
       empId = bufferedReader.readLine();
       for (int i = 0; i < 3; i++) {
        if (employees[i].empId.equals(empId)) {
         c = 1;
         int salary = salary(
           employees[i].basic,
           employees[i].hra,
           da(employees[i].designationCode),
           employees[i].designationCode
         );
         details(
           employees[i].empId,
           employees[i].empName,
           employees[i].depName,
           employees[i].empDesignation,
           salary
         );
         break;
       if (c != 1) System.out.println("Entered employee ID not found");
```

5. Observations/Discussions/ Complexity Analysis:

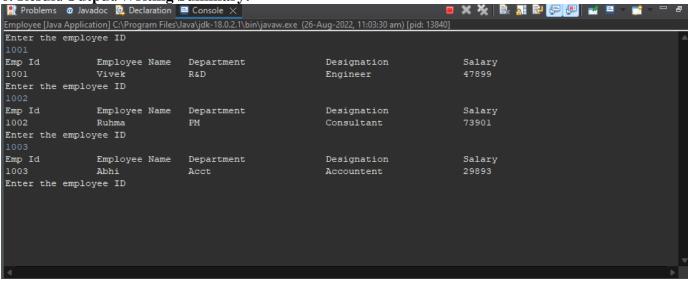
Here we have created the Array with the size of 3 and Data inserted, calculated the DA and Actual salary. Moreover, I've given the Search method with EmpId.







6. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

- **1.** Learn How to create the array.
- **2.** Array manipulation in java.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			
1			

