



#### **Experiment - 1**

Student Name: Vivek Kumar UID: 21BCS8129

Branch: BE-CSE(LEET)
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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"+empDesignation+"\t\t"+salary);
}
public static void main(String[] args) throws IOException {
 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","Ash","1/04/2009",20000,8000,3000,'e');
 employees[1] =
  new Employee("1002","PM","Consultant","Anjali","23/08/2012",30000, 12000, 9000,'c');
 employees[2] =
  new Employee("1003", "Acct", "Clerk", "Raju", "12/11/2008", 10000, 8000, 1000, 'k');
 System.out.println("Enter the employee ID ");
 empId = bufferedReader.readLine();
```





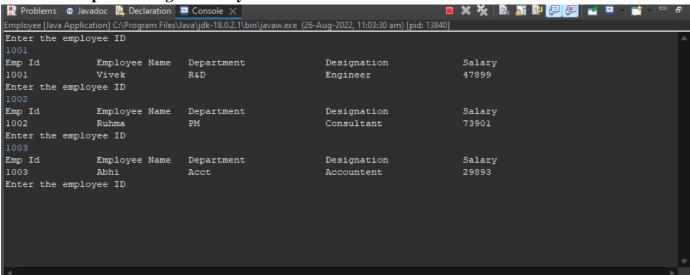


```
for (int i = 0; i < 3; i++) {
 if (employees[i].empId.equals(empId)) {
  c = 1;
  int salary = salary(
   employees[i].basic,
   employees[i].hra,
   da(employees[i].designationCode),
   employees[i].designationCode
  );
  details(
   employees[i].empId,
   employees[i].empName,
   employees[i].depName,
   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.			

