Experiment1.1

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Subject Name: Java Lab   **Subject Code:**21CSH-319

1. **Aim:** Create a application to save the employee information using arrays

2. **Objective:** Given the following table containing information about employees of an organization, develop a small java application, which accepts employee id from the command prompt and displays the details

3. **Algo. /Approach and output:**

```java
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
class Employee {
    int  empNo;
    String empName;
    Date joinDate;
    char desigCode;
    String department;
    double basic;
    double  hra;
    double it;
    public Employee(int empNo, String empName, String joinDate, char
desigCode, String department, double basic, double hra, double it) throws
ParseException {
        this.empNo = empNo;
        this.empName = empName;
```

```java
        this.joinDate = new
SimpleDateFormat("dd/MM/yyyy").parse(joinDate);
        this.desigCode = desigCode;
        this.department = department;
        this.basic = basic;
        this.hra = hra;
        this.it = it;
    }
    public double calculateSalary() {
        double da = getDA();
        return basic + hra + da - it;
    }
    public String getDesignation() {
        switch (desigCode) {
            case 'e':
                return "Engineer";
            case 'c':
                return "Consultant";
            case 'k':
                return "Clerk";
            case 'r':
                return "Receptionist";
            case 'm':
                return "Manager";
            default:
                return "Unknown";
        }
    }
    private double getDA() {
        switch (desigCode) {
            case 'e':
                return 20000;
            case 'c':
                return 32000;
            case 'k':
                return 12000;
            case 'r':
```

```java
                return 15000;
            case 'm':
                return 40000;
            default:
                return 0;
        }
    }
}
public class Project1 {
    public static void main(String[] args) {
        if (args.length != 1) {
            System.out.println("Usage: java Project1 <EmpNo>");
            return;
        }
        int empNo = Integer.parseInt(args[0]);
        Employee[] employees = new Employee[7];
        try {
            employees[0] = new Employee(1001, "Ashish", "01/04/2009", 'e',
"R&D", 20000, 8000, 3000);
            employees[1] = new Employee(1002, "Shashi", "23/08/2012", 'c',
"PM", 30000, 12000, 9000);
            employees[2] = new Employee(1003, "Rahul", "12/11/2008", 'k',
"Acct", 10000, 8000, 1000);
            employees[3] = new Employee(1004, "Chahat", "29/01/2013", 'r',
"Front Desk", 12000, 6000, 2000);
            employees[4] = new Employee(1005, "Ranjan", "16/07/2005", 'm',
"Engg", 50000, 20000, 20000);
            employees[5] = new Employee(1006, "Suman", "01/01/2000", 'e',
"Manufacturing", 23000, 9000, 4400);
            employees[6] = new Employee(1007, "Tanmay", "12/06/2006", 'c',
"PM", 29000, 12000, 10000);
        } catch (ParseException e) {
            e.printStackTrace();
        }
        boolean found = false;
        for (Employee employee : employees) {
            if (employee != null && employee.empNo == empNo) {
```

```
                found = true;
                System.out.println("Emp No.\tEmp
Name\tDepartment\tDesignation\tSalary");
                System.out.println(employee.empNo + "\t" + employee.empName
+ "\t" + employee.department + "\t" + employee.getDesignation() + "\t" +
employee.calculateSalary());
                break;
            }
        }
        if (!found) {
            System.out.println("There is no employee with empid : " + empNo);
        }
    }
}
```

Output: