**Experiment1.1**

**Student Name: Pranesh Patel UID: 21BCS5l2250**

**Branch:BE-CSE Section/Group:801-A**

**Semester: 6 Date of Performance:18-01-2024**

**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:**

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;

        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':

                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:





