**PRACTICAL-12**

**AIM:** Create a class called Employee that includes three pieces of information as instance variables—a first name (type String), a last name (type String), and a monthly salary (double). Your class should have a constructor that initializes the three instance variables. Provide a set and a get method for each instance variable. If the monthly salary is not positive, set it to 0.0. Write a test application named EmployeeTest that demonstrates class Employee’s capabilities. Create two Employee objects and display each object’s yearly salary. Then give each Employee a 10% raise and display each Employee’s yearly salary again.

**CODE:**

import java.util.\*;

import java.util.Scanner;

// EmployeeTest.java

public class EmployeeTest {

    public static void main(String[] args) {

        Employee emp1 = new Employee("Heli", "Patel", 30000.00);

        Employee emp2 = new Employee("Kaksha", "Patel", 45000.00);

        System.out.printf("Employee 1: %s %s, Yearly Salary: %.2f%n",

                          emp1.getFirstName(), emp1.getLastName(), emp1.getYearlySalary());

        System.out.printf("Employee 2: %s %s, Yearly Salary: %.2f%n",

                          emp2.getFirstName(), emp2.getLastName(), emp2.getYearlySalary());

        emp1.giveRaise();

        emp2.giveRaise();

        System.out.printf("After 10%% raise:%n");

        System.out.printf("Employee 1: %s %s, Yearly Salary: %.2f%n",

                          emp1.getFirstName(), emp1.getLastName(), emp1.getYearlySalary());

        System.out.printf("Employee 2: %s %s, Yearly Salary: %.2f%n",

                          emp2.getFirstName(), emp2.getLastName(), emp2.getYearlySalary());

                          System.out.println("23DIT044-Heli Patel");

    }

}

// Employee.java

class Employee {

    private String firstName;

    private String lastName;

    private double monthlySalary;

    public Employee(String firstName, String lastName, double monthlySalary) {

        this.firstName = firstName;

        this.lastName = lastName;

        this.monthlySalary = monthlySalary > 0.0 ? monthlySalary : 0.0;

    }

    public void setFirstName(String firstName) { this.firstName = firstName; }

    public String getFirstName() { return firstName; }

    public void setLastName(String lastName) { this.lastName = lastName; }

    public String getLastName() { return lastName; }

    public void setMonthlySalary(double monthlySalary) {

        this.monthlySalary = monthlySalary > 0.0 ? monthlySalary : 0.0;

    }

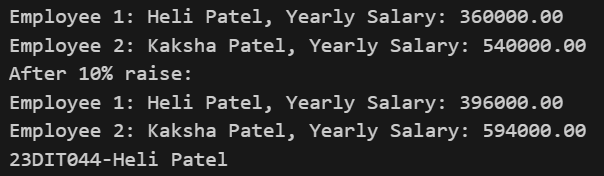
    public double getMonthlySalary() { return monthlySalary; }

    public double getYearlySalary() { return monthlySalary \* 12; }

    public void giveRaise() { monthlySalary \*= 1.10; }

}

**OUTPUT:**

****