Name: Somnath R. Shintre Roll No:

Class: TE CSE Batch:

**Title: -** Create a class called Employee that includes three pieces of information as instance variables- first name, a last name and a monthly salary. 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.

**Program:-**

import java.util.Scanner;

class Employee {

    // Instance Variables

    private String firstName;

    private String lastName;

    private double monthlySalary;

    // Default Constructor

    public Employee() {

        firstName = null;

        lastName = null;

        monthlySalary = 0.0;

    }

    // Getters And Setters

    public String getFirstName() {

        return this.firstName;

    }

    public void setFirstName(String firstName) {

        this.firstName = firstName;

    }

    public String getLastName() {

        return this.lastName;

    }

    public void setLastName(String lastName) {

        this.lastName = lastName;

    }

    public double getMonthlySalary() {

        return this.monthlySalary;

    }

    public void setMonthlySalary(double monthlySalary) {

        if (monthlySalary >= 0) {

            this.monthlySalary = monthlySalary;

        } else {

            this.monthlySalary = 0.0;

        }

    }

}

public class EmployeeTest {

    public static void main(String args[]) {

        // Creating objects or instances

        Employee e1 = new Employee();

        Employee e2 = new Employee();

        // Scanner class to get the user's input

        Scanner sc = new Scanner(System.in);

        String first, last;

        double salary;

        // Entering Employee details from user.

        System.out.println("\nEnter First Name of First Employee: ");

        first = sc.next();

        e1.setFirstName(first);

        System.out.println("Enter Last Name of First Employee: ");

        last = sc.next();

        e1.setLastName(last);

        System.out.println("Enter Monthly Salary of First Employee: ");

        salary = sc.nextDouble();

        e1.setMonthlySalary(salary);

        System.out.println("\nEnter First Name of Second Employee: ");

        first = sc.next();

        e2.setFirstName(first);

        System.out.println("Enter Last Name of Second Employee: ");

        last = sc.next();

        e2.setLastName(last);

        System.out.println("Enter Monthly Salary of Second Employee: ");

        salary = sc.nextDouble();

        e2.setMonthlySalary(salary);

        sc.close();

        // Displaying Employee's capabilities.

        System.out.println("\nFirst Employee's Full Name and Yearly Salary.\n");

        System.out.println(e1.getFirstName() + " " + e1.getLastName() + "  " + e1.getMonthlySalary() \* 12 + "\n");

        System.out.println("Second Employee's Full Name and Yearly Salary.\n");

        System.out.println(e2.getFirstName() + " " + e2.getLastName() + "  " + e2.getMonthlySalary() \* 12 + "\n");

        // Displaying Employee's capabilities with 10% raise.

        System.out.println("Displaying New Total Yearly Salary After 10% Raise.\n");

        System.out.println(

                e1.getFirstName() + " " + e1.getLastName() + "  " + (e1.getMonthlySalary() \* 1.10 \* 12) + "\n");

        System.out.println(

                e2.getFirstName() + " " + e2.getLastName() + "  " + (e2.getMonthlySalary() \* 1.10 \* 12) + "\n");

    }

}

**Output:-**

