

Name :Vaishnavi Vivekanand Kulkarni

PRN: 2020BTEIT00031

Batch:S2

Java Assignment 2

Q.1 Create a class Employee that includes three pieces of information such as instance variables - first name, last name and monthly salary

Your class should have a constructor that initializes the three instance variables

Provide setter and getters method for each instance variable

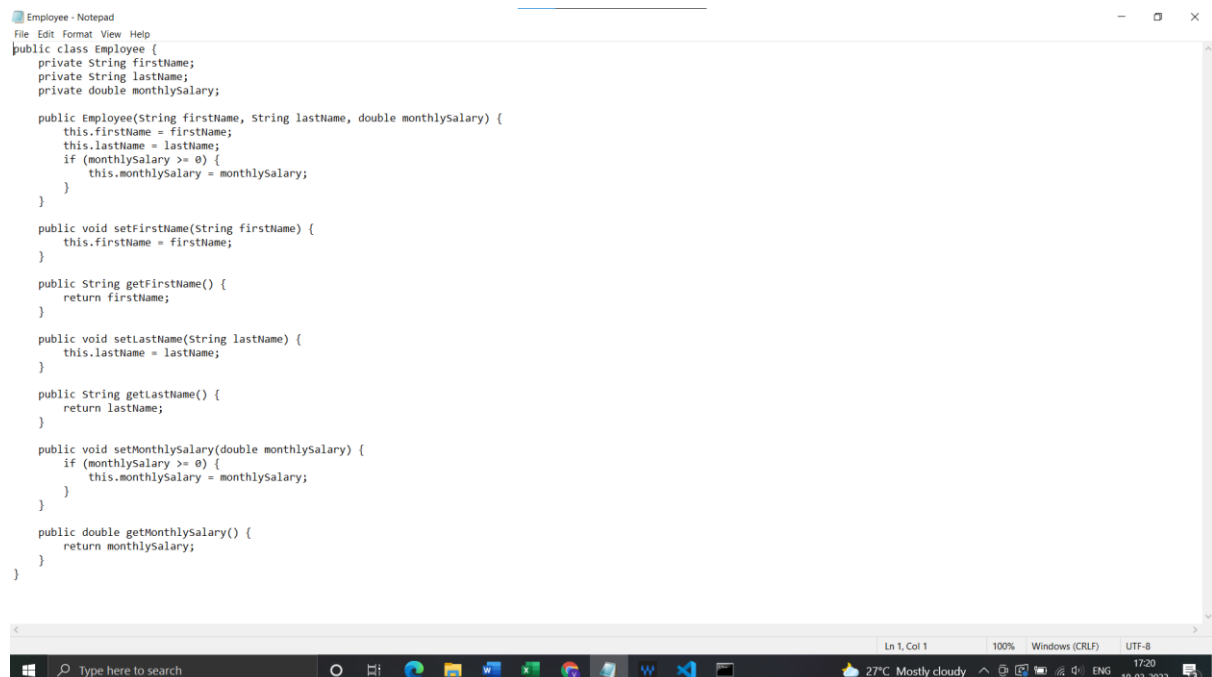
If the monthly salary is not positive, set it to 0.0

Write a test application named EmployeeTest that demonstrates class Employee's capabilities

Create two or more objects for Employee and display each object's yearly salary

Then give each Employee a 15% raise and display each Employee's yearly salary again

Employee.java file

A screenshot of a Windows Notepad application window titled "Employee - Notepad". The window contains the following Java code for the Employee class:

```
public 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;
        if (monthlySalary >= 0) {
            this.monthlySalary = monthlySalary;
        }
    }

    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) {
        if (monthlySalary >= 0) {
            this.monthlySalary = monthlySalary;
        }
    }

    public double getMonthlySalary() {
        return monthlySalary;
    }
}
```

The Notepad window has a menu bar with "File", "Edit", "Format", "View", and "Help". The status bar at the bottom shows "Ln 1, Col 1", "100%", "Windows (CRLF)", and "UTF-8". The Windows taskbar is visible at the bottom of the screen, showing the search bar, task view button, and several open applications including File Explorer, Microsoft Word, and a web browser. The system tray shows the date and time as "10-03-2022 17:20" and the weather as "27°C Mostly cloudy".

EmployeeTest.java file

```
EmployeeTest - Notepad
File Edit Format View Help

public class EmployeeTest {
    public static void main(String[] args) {
        Employee joe = new Employee("Joe", "Rogan", 1000);
        Employee tod = new Employee("Tod", "Howard", 2000);
        System.out.println(joe.getFirstName() + "'s monthly salary is " + joe.getMonthlySalary());
        System.out.println(tod.getFirstName() + "'s monthly salary is " + tod.getMonthlySalary());
        joe.setMonthlySalary(joe.getMonthlySalary() * 1.15);
        tod.setMonthlySalary(tod.getMonthlySalary() * 1.15);
        System.out.println("Salary after 15% boost");
        System.out.println(joe.getFirstName() + "'s monthly salary is " + joe.getMonthlySalary());
        System.out.println(tod.getFirstName() + "'s monthly salary is " + tod.getMonthlySalary());
    }
}
```

Output:

```
C:\Users\Vaishnavi\Desktop>javac EmployeeTest.java

C:\Users\Vaishnavi\Desktop>java EmployeeTest.java
Joe's monthly salary is 1000.0
Tod's monthly salary is 2000.0
Salary after 15% boost
Joe's monthly salary is 1150.0
Tod's monthly salary is 2300.0

C:\Users\Vaishnavi\Desktop>
```