# Rajalakshmi Engineering College

Name: shobbika T

Email: 240701502@rajalakshmi.edu.in

Roll no: 240701502 Phone: 7305423247

Branch: REC

Department: CSE - Section 10

Batch: 2028

Degree: B.E - CSE



# 2024\_28\_III\_OOPS Using Java Lab

2028\_REC\_OOPS using Java\_Week 6\_Q1

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1: Coding

#### 1. Problem Statement

Elsa subscribes to a premium service with a base monthly cost, a service tax and an extra feature cost. Assist her in writing an inheritance program that takes input for these values and calculates the total monthly cost.

Refer to the below class diagram:

### **Input Format**

The first line of input consists of a double value, representing the base monthly cost.

The second line consists of a double value, representing the service tax.

The third line consists of a double value, representing the extra feature cost.

## **Output Format**

The output prints "Rs. X" where X is a double value, rounded off to two decimal places.

Refer to the sample output for formatting specifications.

```
Sample Test Case
   Input: 10.0
   2.5
   5.0
   Output: Rs. 17.50
Answer
   import java.util.Scanner;
   class Subscription {
     protected double monthlyCost;
     protected double serviceTax;
     protected double extraFeatureCost;
     public Subscription(double monthlyCost, double serviceTax, double
   extraFeatureCost) {
       this.monthlyCost = monthlyCost;
      this.serviceTax = serviceTax;
       this.extraFeatureCost = extraFeatureCost;
   class PremiumSubscription extends Subscription {
     public PremiumSubscription(double monthlyCost, double serviceTax, double
   extraFeatureCost) {
       super(monthlyCost, serviceTax, extraFeatureCost);
     }
     public double calculateMonthlyCost() {
      return monthlyCost + serviceTax + extraFeatureCost;
```

```
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        double baseMonthlyCost = scanner.nextDouble();
        double serviceTax = scanner.nextDouble();
        double extraFeatureCost = scanner.nextDouble();

        PremiumSubscription premiumSubscription = new
PremiumSubscription(baseMonthlyCost, serviceTax, extraFeatureCost);

        double totalMonthlyCost = premiumSubscription.calculateMonthlyCost();
        System.out.printf("Rs. %.2f%n", totalMonthlyCost);
        scanner.close();
    }
}

Status: Correct

Marks: 10/10
```

107502

4010150<sup>2</sup>

40701502

240701502

2,40701502

240101502

240701502

2,40707502