Status	Finished
Started	Wednesday, 2 October 2024, 6:10 PM
Completed	Wednesday, 2 October 2024, 6:35 PM
Duration	24 mins 55 secs

Question **1**

Correct

Marked out of 5.00

Create a class Student with two private attributes, name and roll number. Create three objects by invoking different constructors available in the class Student.

Student()

Student(String name)

Student(String name, int rollno)

Input:

No input

Output:

No-arg constructor is invoked
1 arg constructor is invoked
2 arg constructor is invoked
Name =null , Roll no = 0
Name =Rajalakshmi , Roll no = 0
Name =Lakshmi , Roll no = 101

For example:

Test	Result
1	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101

Answer: (penalty regime: 0 %)

```
public class Student {
    private String name;
    private int rollno;
    public Student() {
        System.out.println("No-arg constructor is invoked");
    }

    public Student(String name) {
        this.name = name;
        System.out.println("1 arg constructor is invoked");
    }

    public Student(String name, int rollno) {
        this.name = name;
        this.rollno = rollno;
        System.out.println("2 arg constructor is invoked");
    }

    public void display() {
        System.out.println("Name =" + name + " , Roll no = " + rollno);
    }

    public static void main(String[] args) {
        Student s1 = new Student();
        Student s2 = new Student("Rajalakshmi");
        Student s3 = new Student("Lakshmi", 101);
        s1.display();
        s2.display();
        s3.display();
    }
}
```

	Test	Expected	Got	
✓	1	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Create a class called "Circle" with a radius attribute. You can access and modify this attribute using getter and setter methods. Calculate the area and circumference of the circle.

Area of Circle = πr^2

Circumference = $2\pi r$

Input:

2

Output:

Area = 12.57
Circumference = 12.57

For example:

Test	Input	Result
1	4	Area = 50.27 Circumference = 25.13

Answer: (penalty regime: 0 %)

Reset answer

```
import java.util.Scanner;

public class Circle {
    private double radius;

    public Circle(double radius) {
        this.radius = radius;
    }

    public double getArea() {
        return Math.PI * radius * radius;
    }

    public double getCircumference() {
        return 2 * Math.PI * radius;
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Circle circle = new Circle(scanner.nextDouble());

        System.out.println("Area = " + String.format("%.2f", circle.getArea()));
        System.out.println("Circumference = " + String.format("%.2f", circle.getCircumferenc
    }
```

	Test	Input	Expected	Got	
✓	1	4	Area = 50.27 Circumference = 25.13	Area = 50.27 Circumference = 25.13	✓
✓	2	6	Area = 113.10 Circumference = 37.70	Area = 113.10 Circumference = 37.70	✓
✓	3	2	Area = 12.57 Circumference = 12.57	Area = 12.57 Circumference = 12.57	✓

Passed all tests! ✓

Question **3**

Incorrect

Marked out of 5.00

Create a Class Mobile with the attributes listed below,

private String manufacturer;
private String operating_system;
public String color;
private int cost;

Define a Parameterized constructor to initialize the above instance variables.

Define getter and setter methods for the attributes above.

for example : setter method for manufacturer is

void setManufacturer(String manufacturer){

this.manufacturer= manufacturer;

}

String getManufacturer(){

return manufacturer;}

Display the object details by overriding the toString() method.

For example:

Test	Result
1	manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000

Answer: (penalty regime: 0 %)

```
public class Mobile {
    private String manufacturer;
    private String operating_system;
    public String color;
    private int cost;

    public Mobile(String manufacturer, String operating_system, String color, int cost) {
        this.manufacturer = manufacturer;
        this.operating_system = operating_system;
        this.color = color;
        this.cost = cost;
    }

    public void setManufacturer(String manufacturer) {
        this.manufacturer = manufacturer;
    }

    public String getManufacturer() {
        return manufacturer;
    }

    public void setOperatingSystem(String operating_system) {
        this.operating_system = operating_system;
    }

    public String getOperatingSystem() {
        return operating_system;
    }

    public void setColor(String color) {
        this.color = color;
    }

    public String getColor() {
        return color;
    }

    public void setCost(int cost) {
        this.cost = cost;
```

```
    }

    public int getCost() {
        return cost;
    }
    @Override
    public String toString() {
        return "manufacturer = " + manufacturer + "\n" +
                "operating_system = " + operating_system + "\n" +
                "color = " + color + "\n" +
                "cost = " + cost;
    }

```

	Test	Expected	Got	
✗	1	manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000	manufacturer = Redmi operating_system = Android color = Blue cost = 34000	✗

Your code must pass all tests to earn any marks. Try again.

Show differences

◄ Lab-04-MCQ

Jump to...

Number of Primes in a specified range ►