CS23333-Object Oriented Programming Using Java-2023

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Status	Finished
Started	Saturday, 5 October 2024, 11:12 PM
Completed	Saturday, 5 October 2024, 11:48 PM
Duration	36 mins 4 secs

Question **1**

Correct

Marked out of 5.00

Flag question

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 stud{
    private String name;
    private  int roll;
    public stud(){
        System.out.println("No-arg constructor is invoked");
        name=null;
        roll=0;

    }
    public stud(String name){
        System.out.println("1 arg constructor is invoked");
        this.name=name;
        roll=0;

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

        }

    public static void main (String[]args){
                stud s1=new stud();
                stud s2=new stud("Rajalakshmi");
                stud s3=new stud("Lakshmi",101);
                System.out.println("Name ="+s1.name+" , Roll no = "+s2.roll);
                System.out.println("Name ="+s2.name+" , Roll no = "+s2.roll);
                System.out.println("Name ="+s3.name+" , Roll no = "+s3.roll);
            }
        }
```

	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

Flag question

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 man;
    private String os;
    public String clr;
    private int cost;
    public mobile(String man,String os,String clr,int cost){
        this.man=man;
        this.os=os;
        this.clr=clr;
        this.cost=cost;
        }
        public String toString(){
            return "manufacturer = "+man+"\n"+"operating_system = "+os+"\n"+"color = "+ clr+"\n"+"cost = "+cost;
        }
        public static void main(String[]args){
            mobile mobile=new mobile("Redmi","Andriod","Blue",34000);
            System.out.println(mobile);
        }
}
```

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

Passed all tests!

Question **3**

Correct

Marked out of 5.00

Flag question

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;
class Circle
{
    private double radius;
    public Circle(double radius){
        // set the instance variable radius
        this.radius =radius;


    }
    public void setRadius(double radius){
        // set the radius
        this.radius=radius;

    }
    public double getRadius()    {
        // return the radius
        return radius;

    }
    public double calculateArea()  { // complete the below statement
       return Math.PI*radius*radius;

    }
    public double calculateCircumference()    {
        // complete the statement
       return 2*Math.PI*radius;
    }
}
class prog{
    public static void main(String[] args)  {
        int r;
        Scanner sc= new Scanner(System.in);
        r=sc.nextInt();
        Circle c= new Circle(r);
```

```
        System.out.println("Area = "+String.format("%.2f", c.calculateArea()));
        // invoke the calculatecircumference method
        System.out.println("Circumference = "+String.format("%.2f" , c.calculateCircumference()));

        sc.close();


    }
}

```

	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!

Finish review

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