REC-CIS

CS23333-Object Oriented Programming Using Java-2023

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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:

Te	st 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 %)

```
1 - | 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.name-name;
            this.name-name;
            this.name=name;
            this.name=name;
            this.name=name;
            this.name=name;
            this.name=name;
            this.sname=name;
            this.sname=name;
            this.sname=name;
            this.sname=name;
            this.name=name;
            this.name=
```

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

Passed all tests!

Question 2 Correct Marked out of 5.00 Friag 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

```
Test Expected Got

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

Passed all tests!
```

Question **3**Correct
Marked out of 5.00
Friag 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

 $\textbf{Circumference} = 2\pi r$

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
 1 - import java.io.*;
           import java.util.Scanner;
          class Circle
                public Circle(double radius){
    // set the instance variab
    this.radius = radius;
  6
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9
                                                                iable radius
                public void setRadius(double radius){
                  // set the radius
this.radius=radius;
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                public double getRadius() {
   // return the radius
                    // return the radius
return radius;
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                public double calculateArea() { // complete the below statement
  return Math.PI*radius*radius;
                public double calculateCircumference() {
                   // complete the statemen
return 2*Math.PI*radius;
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40
          class prog(
  public static void main(String[] args) {
    int r;
    Scanner sc= new Scanner(System.in);
                       Stainler Stainler (System.III),
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();
  41
42
43
```

Finish review

◄ Lab-04-MCQ

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