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Status	Finished
Started	Thursday, 3 October 2024, 8:48 AM
Completed	Thursday, 3 October 2024, 10:03 AM
Duration	1 hour 15 mins

```
Question 1

Not answered

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 =  $\pi r^2$ 

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
```

```
1 | import java.io.*;
 2
   class Circle
 3 ▼ {
        private double radius;
 4
 5 •
        public Circle(double radius){
 6
            // set the instance variable radius
 7
 8
 9
10
        public void setRadius(double radius){
11
            // set the radius
12
13
14
        public double getRadius()
15
            // return the radius
16
17
18
19
        public double calculateArea() { // complete the below statement
20
21
           return
22
23
24
        public double calculateCircumference()
25
            // complete the statement
26
           return
27
   }
29 v class prog{
30
        public static void main(String[] args) {
31
            int r;
32
            Scanner sc= new Scanner(System.in);
33
            r=sc.nextInt();
34
            Circle c= new Circle(r);
35
            System.out.println("Area = "+String.format("%.2f", c.calculateArea()));
36
            // invoke the calculatecircumference method
37
38
39
40
    }
41
```

Question **2**Not answered

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 %)

1		
		li

Question **3**Not answered
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	<pre>manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000</pre>	

Answer: (penalty regime: 0 %)

1	

■ Lab-04-MCQ

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