```
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 %)

```
1 - public class Mobile {
           private String manufacturer;
private String operating_system;
           public String color;
          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;
 10
 11
         this.manufacturer = manufacturer;
          public void setManufacturer(String manufacturer) {
 13
 14
15
 16
17
          public String getManufacturer() {
              return manufacturer;
18
19
          public void setOperatingSystem(String operating_system) {
20
               this.operating_system = operating_system;
 21
 22
23
24
          public String getOperatingSystem() {
               return operating_system;
25
26
          public void setColor(String color) {
27
28
                this color = color;
          public String getColor() {
    return color;
}
29
 30
31
          public void setCost(int cost) {
 32
33
34
35
               this.cost = cost;
          public int getCost() {
    return cost;
}
36
37
38
           public String toString() {
    return "manufacturer = " + manufacturer + '\n' +"operating_system = " + operating_system + '\n' +"color = " + color + '\n' +"cost = " +
40
41
42
```

	Test	Expected	Got
~	1		manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000
	d all te		

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

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 Name =Lakshmi , Roll no = 101 Name =Lakshmi , Roll no = 101	ced ced no = 0	~

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

	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	~
~	3	2	Area = 12.57 Circumference = 12.57	Area = 12.57 Circumference = 12.57	~