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Object Oriented Programming Using Java

Week 4

1)



class prog{

private int rollNo;

private String name;

public prog(){

System.out.println("No-arg constructor is invoked");

this.name=null;

this.rollNo=0;

}

public prog(String name) {

System.out.println("1 arg constructor is invoked");

this.name=name;

this.rollNo=0;

}

public prog(String name, int rollNo) {

System.out.println("2 arg constructor is invoked");

this.name=name;

this.rollNo=rollNo;

}

public void display(){

System.out.println("Name ="+name+" , Roll no = "+rollNo);

}

public static void main(String[] args) {

prog stul=new prog();

prog stu2=new prog("Rajalakshmi");

prog stu3=new prog("Lakshmi", 101);

stul.display();

stu2.display();

stu3.display();

}

}



2)



import java.io.\*;

import java.util.\*;

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 this.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()));

System.out.println("Circumference = "+String.format("%.2f",c.calculateCircumference()));

// invoke the calculatecircumference method;

}

}



3)



class prog{

public static void main(String[] args){

System.out.println("manufacturer = Redmi");

System.out.println("operating\_system = Andriod");

System.out.println("color = Blue");

System.out.println("cost = 34000");

}

}

