## Class CircleArea:

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425lab1 > src > © CircleArea

✓ ☐ CircleArea ▼ ▶ # C ■ □ □ □ □ □ □
■ Project ▼
                                 ∨ ■ 425lab1 ~/IdeaProjects/425lab1
                                                              import java.util.Scanner;
  > lidea
                                                     3 ▶ public class CircleArea {
   ✓ In src

© Circle

© CircleArea
                                                                    // main method to run the progra
                                                      5 ▶
                                                                    public static void main(String[] args) {
                                                                         //use scanner method to input.
Scanner sc = new Scanner(System.in);
425lab1.iml

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Scratches and Consoles
                                                                         //tell the user to input value.

System.out.println("Enter the radius of the circle1: ");
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                                                                         // create a new circle1 instance.
Circle circle1 = new Circle();
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                                                                          //make it available to input the value of radius.
                                                                         //make it avaitable to input the value of radius.

circlel.radius = sc.nextint();

//call the toString method of Circle and print the area of the new circle.
                                                                          System.out.println(circle1.toSting());
                                                                          //same for new circle2
                                                                          System.out.println("Enter the radius of the circle2: ");
                                                                         Circle circle2 = new Circle();
circle2.radius = sc.nextInt();
System.out.println(circle2.toSting());
                                                                         String c1= circle1.toSting();
                                                                          String c2 =circle2.toSting();
                                                                         System.out.println("circle1 equals circle2 is " + c1.equals(c2));
Run: CircleArea ×
☐ Build completed successfully in 1 s 766 ms (25 minutes ago)
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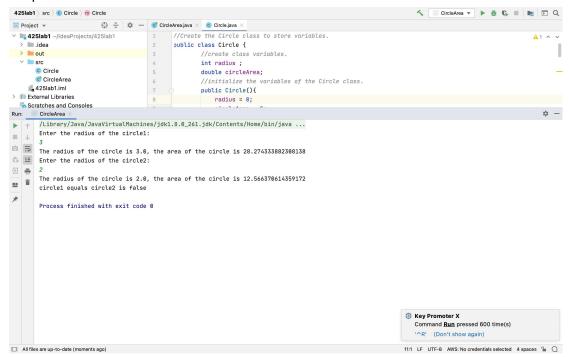
## Class Circle:

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425lab1 > src > © Circle > m Circle

✓ ☐ CircleArea ▼ ▶ # C ■ ■ □ Q

                              \mathfrak{S} \stackrel{\star}{\sim} | \mathfrak{F} - | \mathfrak{E} CircleArea.java \times \stackrel{\bullet}{\circ} CircleJava \times 4/25lab1 1 //Create the Circle class to store variables.
■ Project ▼
∨ ■ 425lab1 ~/IdeaProjects/425lab1
                                                            public class Circle {
     idea .idea
   > out
                                                                     //create class variables.
int radius;
   double circleArea;
//initialize the variables of the Circle class.
   425lab1.iml
                                                                     public Circle(){
                                                                      radius = 0;
circleArea = 0;
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   Scratches and Consoles
                                                                      //Getter method provides access to instance variables.
                                                                      //get the new radius value when it's called
                                                                     public double getRadius() { return radius; }
                                                                     //Setter method allows other objects to change the values //set the new radius value.
                                                                     public void setRadius(int radius) { this.radius = radius; }
                                                                     //write the function of area and get the new area value when it's called. public double getCircleArea() {
                                                                          return Math.PI * radius * radius;
                                                                      //toString method returns the String representation of the Circle.
                                                                     public String toSting(){
                                                                          return "The radius of the circle is " + getRadius() + ", the area of the circle is " + getCircleArea
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Run: CircleArea ×
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```

## Output1:



## Output2:

