

Circle:

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer shows a project named "Geometricareas" with a "src" folder containing "Areas", "GeometricCalculator.java", "Mainclass.java", and "module-info.java". There is also a "Phase1javaprograms" folder.
- Code Editor:** The Mainclass.java file contains the following code:

```
40 double radius = scanner.nextDouble();
41 double area = Math.PI * Math.pow(radius, 2);
42 System.out.println("Area of the circle: " + area);
43 }
44
45 private static void calculateRectangleArea(Scanner scanner) {
46     System.out.print("Enter the length of the rectangle: ");
47     double length = scanner.nextDouble();
48     System.out.print("Enter the width of the rectangle: ");
49     double width = scanner.nextDouble();
50     double area = length * width;
51     System.out.println("Area of the rectangle: " + area);
52 }
53
54 private static void calculateTriangleArea(Scanner scanner) {
55     System.out.print("Enter the base of the triangle: ");
56     double base = scanner.nextDouble();
57     System.out.print("Enter the height of the triangle: ");
58     double height = scanner.nextDouble();
59     double area = 0.5 * base * height;
60     System.out.println("Area of the triangle: " + area);
61 }
62 }
63
64
65 }
```
- Output Console:** The console shows the output of running the program:

```
1
Enter the radius of the circle: 1
Area of the circle: 3.141592653589793
```
- Outline View:** The Outline view shows the class structure with methods: main(String[]), calculateCircleArea(Scanner), calculateRectangleArea(Scanner), and calculateTriangleArea(Scanner).

Rectangle:

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer shows a project named "Geometricareas" with a "src" folder containing "Areas", "GeometricCalculator.java", "Mainclass.java", and "module-info.java". There is also a "Phase1javaprograms" folder.
- Code Editor:** The Mainclass.java file contains the following code:

```
40 double radius = scanner.nextDouble();
41 double area = Math.PI * Math.pow(radius, 2);
42 System.out.println("Area of the circle: " + area);
43 }
44
45 private static void calculateRectangleArea(Scanner scanner) {
46     System.out.print("Enter the length of the rectangle: ");
47     double length = scanner.nextDouble();
48     System.out.print("Enter the width of the rectangle: ");
49     double width = scanner.nextDouble();
50     double area = length * width;
51     System.out.println("Area of the rectangle: " + area);
52 }
53
54 private static void calculateTriangleArea(Scanner scanner) {
55     System.out.print("Enter the base of the triangle: ");
56     double base = scanner.nextDouble();
57     System.out.print("Enter the height of the triangle: ");
58     double height = scanner.nextDouble();
59     double area = 0.5 * base * height;
60     System.out.println("Area of the triangle: " + area);
61 }
62 }
63
64
65 }
```
- Output Console:** The console shows the output of running the program:

```
2
Enter the length of the rectangle: 6
Enter the width of the rectangle: 4
Area of the rectangle: 24.0
Choose a geometric shape:
```
- Outline View:** The Outline view shows the class structure with methods: main(String[]), calculateCircleArea(Scanner), calculateRectangleArea(Scanner), and calculateTriangleArea(Scanner).

Triangle:

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with packages like Geometricareas and Phase1Javaprograms.
- Mainclass.java:** The code for calculating areas of circle, rectangle, and triangle.
- Code Snippet:**

```
40 double radius = scanner.nextDouble();
41 double area = Math.PI * Math.pow(radius, 2);
42 System.out.println("Area of the circle: " + area);
43 }
44
45 private static void calculateRectangleArea(Scanner scanner) {
46     System.out.print("Enter the length of the rectangle: ");
47     double length = scanner.nextDouble();
48     System.out.print("Enter the width of the rectangle: ");
49     double width = scanner.nextDouble();
50     double area = length * width;
51     System.out.println("Area of the rectangle: " + area);
52 }
53
54 private static void calculateTriangleArea(Scanner scanner) {
55     System.out.print("Enter the base of the triangle: ");
56     double base = scanner.nextDouble();
57     System.out.print("Enter the height of the triangle: ");
58     double height = scanner.nextDouble();
59     double area = 0.5 * base * height;
60     System.out.println("Area of the triangle: " + area);
61 }
62
63
64
65
66 }
```
- Console:** Displays the output of the program when run.
- Outline:** Shows the class structure with methods: main(String[]), calculateCircleArea(Scanner), calculateRectangleArea(Scanner), and calculateTriangleArea(Scanner).