## **Project : Geometric Calculater**

```
package areas;
import java.util.Scanner;
public class GeometricCalculater{
  public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   // Example usage
   double rectangleArea = calculateRectangleArea(5, 8);
   double circleArea = calculateCircleArea(4);
   double triangleArea = calculateTriangleArea(3, 6);
   System.out.println("Rectangle Area: " + rectangleArea);
   System.out.println("Circle Area: " + circleArea);
   System.out.println("Triangle Area: " + triangleArea);
   // You can also take input from the user for dynamic calculations
   System.out.print("\nEnter the base and height of a triangle: ");
   double base = scanner.nextDouble();
   double height = scanner.nextDouble();
   double userTriangleArea = calculateTriangleArea(base, height);
   System.out.println("User Input Triangle Area: " + userTriangleArea);
   scanner.close();
  public static double calculateRectangleArea(double length, double width) {
   // Calculate the area of a rectangle
   return length * width;
 }
  public static double calculateCircleArea(double radius) {
   // Calculate the area of a circle
   return Math.PI * Math.pow(radius, 2);
  public static double calculateTriangleArea(double base, double height) {
   // Calculate the area of a triangle
   return 0.5 * base * height;
 }
}
```

