Solution Review: Implement and Override Method

This review provides a detailed analysis to solve the 'Implement and Override the Method in the Derived Class' challenge.



Solution

```
// Base Class
    class Shape {
                                                                                 // Private Data Members
      private double area;
      public Shape() { // Default
        area = 0;
11
      public double getArea() {
12
        return area;
13
14
17
    // Derived Class
    class Circle extends Shape {
20
21
      private double radius;
22
      public Circle(double radius)
24
      this.radius = radius;
25
27
      // Overridden Method the get
      public double getArea() {
29
        return (radius*radius) * 3
                                                                                 []
```

Explanation

The solution is very simple.

- Line 29 31: The <code>getArea()</code> method is overridden in the <code>Circle</code> class to calculate the area of the circle.
- The area is calculated using the conventional formula:

$$pi*radius^2$$