Solution Review: Implement and Override the Method

This review provides a detailed analysis on how to solve the 'Implement and Override the Method' challenge.

WE'LL COVER THE FOLLOWING ^

- Solution
 - Explanation

Solution

```
// Base Class
class Shape {
  public Shape() {} // Default Constructor
  // Getter Function
  public virtual double ClacArea() {
    return 0;
  }
}
// Derived Class
class Circle : Shape {
  private double _radius;
  public Circle(double radius) { // Constructor
    this._radius = radius;
  }
  // Overridden CalcArea() method which returns the area of Rectangle
  public override double ClacArea() {
    return (this._radius * this._radius) * 3.14;
}
class Demo {
 public static void Main(string[] args) {
   Shape circle = new Circle(2);
```

```
Console.WriteLine(circle.ClacArea());
}
```







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Explanation

The solution is very simple:

- Line 26 28: The CalcArea() method is overridden in the Circle class to calculate and return the area of the circle.
- The area is calculated using the conventional formula:

$$pi * r^2$$