Solution Review: Implement the Derived Class

This review provides a detailed analysis to solve the 'Implement the Derived Class' challenge.

> **WE'LL COVER THE FOLLOWING** ∧
>
> - Solution
>   - Explanation

Solution

```java
// Base Class
class Vehicle {

  // Private Data Members
  private String speed;
  private String model;

  public Vehicle() { // Default Constructor
    speed = "100";
    model = "Tesla";
  }

  // Getter Function
  public String getSpeed() {
    return speed;
  }

  // Getter Function
  public String getModel() {
    return model;
  }

}

// Derived Class
class Car extends Vehicle {

  public String name; //  Name of a Car

  public Car() { // Default Constructor
    name = "";
  }

  // This function sets the name of the car
  public void setDetails(String name) { // Setter Function
```

```
    this.name = name;
  }

  // This function calls the Base class functions and append the result with input
  public String getDetails(String carName) {
    String details = carName + ", " + getModel() + ", " + getSpeed(); // calling Base Class F
    return details;
  }


  public static void main(String args[]) {
    Car car = new Car();
    System.out.println(car.getDetails("X"));
  }

}
```

Explanation

- **Line 26:** `Car` class is extended from the `Vehicle` class using the `extends` keyword.

- **Line 41:** Using `getDetails()` method, we call the Base Class methods to get `model` and `speed` details of the vehicle and append it with the car name.