**8.2- Exercise – CentralClass**

**Exercise**

Extend and Improve the Pen Class

**Task**

1. Modify the Pen class to include public setter and getter methods for manufacturer, color, and type.
2. Ensure that the class variables are correctly set through the setters and retrieved via the getters.
3. Update CentralClass to set the Pen properties using the new setter methods before calling describePen().

**Hints**

* Create public setManufacturer(String manufacturer), setColor(String color), and setType(String type) methods in the Pen class to assign values to the private variables.
* Create public getManufacturer(), getColor(), and getType() methods to retrieve the values of the private variables.
* Ensure that the describePen() method uses the instance variables directly or calls the getter methods if needed.

**Explanation**

This exercise emphasizes the importance of encapsulation in object-oriented programming. By implementing getters and setters, you protect the class's internal state and provide controlled access. It also demonstrates how to use these methods in a main class to create and manipulate objects, reinforcing your understanding of object creation and method usage in Java.