First and foremost, based on my knowledge and research, there are four distinct principles of Object-Oriented Programming (OOP): Abstraction, Encapsulation, Inheritance, and Polymorphism. Moreover, I will describe them carefully and in detail with examples of previous tasks.

A. Abstraction

From my perspective, "Abstraction" in the OOP can be understood in the following case. For example, if you are considered generating a shipping application, the attribute _color may not be important or be ignored. However, when implementing the selling interface with various products, the _color is important to the customer. Similarly, in the task ShapeDrawing, the Shape class includes IsAt(), DrawOutline(), and Draw() methods. Moreover, according to the UML design, the three mentioned methods are also abstract, forcing any shape classes inherited from Shape including MyRectangle, MyCircle, and Myline to provide their own unique implementations for these methods.

B. Encapsulation

In my opinion, "Encapsulation" serves as the principle of bundling data (attributes) and the methods that operate on that data within a single unit (a class) and restricting direct access to the internal state. In essence, the principle preserves data integrity and mitigates unintended external interactions. For instance, in the **ShapeDrawing** task, attributes such as **Color**, _x and _y are set as private, meaning that other classes can only access and modify these attributes through public methods provided by **Shape** class.

C. Inheritance

In my point of view, when learning the "inheritance" principle, there are two crucial definitions which students must understand: parent and child classes. Furthermore, a child (derived) class can inherit all members from its parent (base) class. Specifically, *MyRectangle*, *My*Circle, and *Myline* classes (child classes) inherit from *Shape* class (parent class), meaning that they share basic *Shape* abilities but still draw themselves seperately.

D. Polymorphism

Based on my knowledge and researh, "Polymorphism" principle means "having multiple forms" or "many shapes" in Greek. For example, I am writing a program contains *Move()* method and then I can utilize the above method for others such as *Cat()* and *Dog()*. Similarly, polymorphism allows different objects, such as circles and rectangles, to have distinct drawing methods. While they all belong to the Shape class, their drawing methods vary based on specific attributes like height, width, or length.

