Java OOP Summary

# Four features:

1. Inheritance
2. Polymorphism
3. Abstraction
4. Encapsulation

# Different Modifier

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Modifier | Interface | Class | Nested Class | Field | Method |
| Public | Accessible from any class. | | | | |
| Private | Accessible only from this class. | | | | |
| Protected | Accessible only from this class and its subclasses. | | | | |
| Abstract | N/A | Cannot be instantiated. | | N/A | Its implementation is not defined; only signature & return type declared. |
| Final | N/A | Cannot be subclassed. | | Its value cannot be changed | It cannot be overridden by a subclass. |
| Static | N/A | N/A | Not an inner class | Exactly one instance exists for all objects of the class | Exactly one instance exists for all objects of the class. |