

Validation

- Validate inputs before modifying the state of object

Ex: I. year variable is public you could easily get null. But with set method. → ensure year with a range not NULL

What is accessor methods

- Getter / Setter
- ⇒ It used to get and set value of private field

Encapsulation: Ensure the internal state of an object not change or access from outside.

When should accessor methods be used

Data Abstraction

Object should not expose any of its implementation details. ⇒ You can change the implementation without changing code

Hide implementation details

Getter and Setter are dangerous?

- Violate the encapsulation principle
- Provide external access to implementation details
- Creating bad habit and it not OO programming