

Encapsulation

What is Encapsulation

The process of binding data and corresponding methods (behavior) together into a single unit is called encapsulation in Java.

In other words, encapsulation is a programming technique that binds the class members (variables and methods) together and prevents them from being accessed by other classes.

```
class {  
    Fields  
    +  
    Methods  
}
```

class

datas

methods

capsule

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What is Data hiding

Data hiding in Java is an important principle of object-oriented programming system (OOPs). It prevents to access data members (variables) directly from outside the class so that we can achieve security on data. This oops feature is called data hiding in Java.

What is Getter and Setter

A method which is used to retrieve/get the value of a variable or return the value of the private member variable is called getter method in Java.

A method which is used for updating or setting the value of a variable is called setter method in Java. This method is also known as mutator method.

Common mistakes while implementing Getter and Setter methods

- You have setter and getter, but the variable is declared in a less restricted scope.
- Assign object reference directly in the setter.
- Return the object reference directly in getter.

Interview Questions