

1. What is Encapsulation in java? Why is it called Data hiding.

Sol. In encapsulation, the variables of a class will be hidden from other classes, and can be accessed only through the methods of their current class. Therefore, it is also known as data hiding.

2. What are the important features of Encapsulation.

Sol. Encapsulation is a way to restrict the direct access to some components of an object, so users cannot access state values for all of the variables of a particular object. Encapsulation can be used to hide both data members and data functions or methods associated with an instantiated class or Object.

3. What are getter and setter methods in java Explain with an example.

Sol. Getters and setters are used to protect your data, particularly when creating classes. For each instance variable, a getter method returns its value while a setter method sets or updates its value.

4. What is the use of this keyword explain with an example.

Sol. The this keyword refers to the current object in a method or constructor. The most common use of the this keyword is to eliminate the confusion between class attributes and parameters with the same name (because a class attribute is shadowed by a method or constructor parameter).

5. What is the advantage of Encapsulation.

Sol. Encapsulation is a way to restrict the direct access to some components of an object, so users cannot access state values for all of the variables of a particular object.