## **What is an Abstract Method?**

An abstract method is a method that is declared but not defined in a class. It acts as a placeholder for methods that must be implemented in subclasses.

## **What is an Abstract Class?**

In Java, a Class that contains at least one abstract method in it is called an abstract class and it is a class that cannot be instantiated on its own and is meant to be subclassed.

In Java, abstraction is achieved by **interfaces** and **abstract classes**. We can achieve 100% abstraction using interfaces.

## **Java Abstract classes and Java Abstract methods**

1. An abstract class is a class that is declared with an **abstract** keyword.
2. An abstract method is a method that is declared without implementation.
3. An abstract class must have at least one abstract method. And could also have concrete methods
4. A method-defined abstract must always be redefined in the subclass, thus making overriding compulsory or making the subclass itself abstract.
5. Any class that contains one or more abstract methods must also be declared with an abstract keyword.
6. There can be no object of an abstract class. That is, an abstract class can not be directly instantiated with the *new operator*.
7. An abstract class can have parameterized constructors and the default constructor is always present in an abstract class.