

# Types of Inheritance

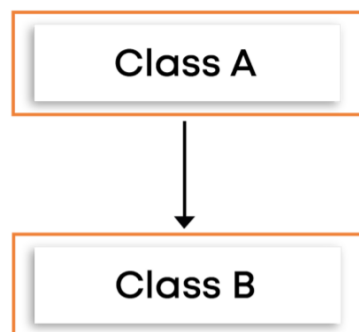
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## Types of Inheritance-

C++ supports five types of inheritance they are as follows:

### 1) Single inheritance

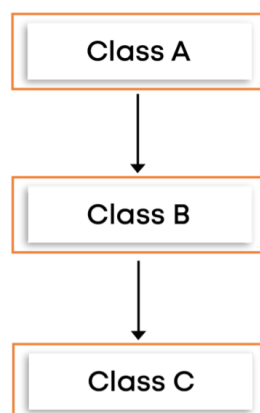
In single inheritance, one class can extend the functionality of another class. There is only one parent class and one child class in single inheritances.



**Single Inheritance**

### 2) Multilevel inheritance

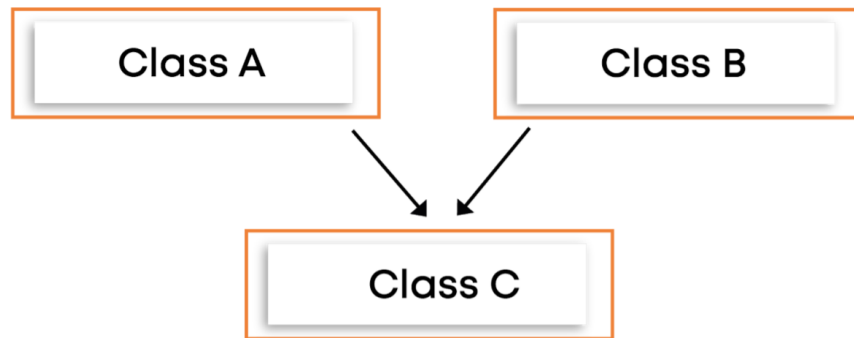
When a class inherits from a derived class, and the derived class becomes the base class of the new class, it is called multilevel inheritance. In multilevel inheritance, there is more than one level.



**Multi-Level Inheritance**

### 3) Multiple inheritance

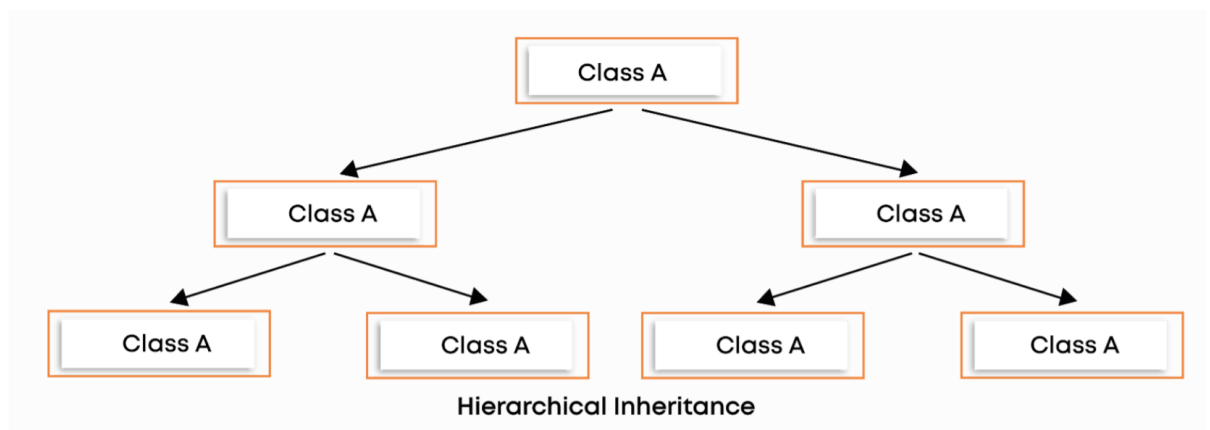
In multiple inheritance, a class can inherit more than one class. This means that a single child class can have multiple parent classes in this type of inheritance.



**Multiple Inheritance**

### 4) Hierarchical inheritance

In hierarchical inheritance, one class is a base class for more than one derived class.



**Hierarchical Inheritance**

### 5) Hybrid inheritance

Hybrid inheritance is a combination of more than one type of inheritance. For example, A child and parent class relationship that follows multiple and hierarchical inheritances can be called hybrid inheritance.

