



# Core Java

Unit 3 – Inheritance Introduction

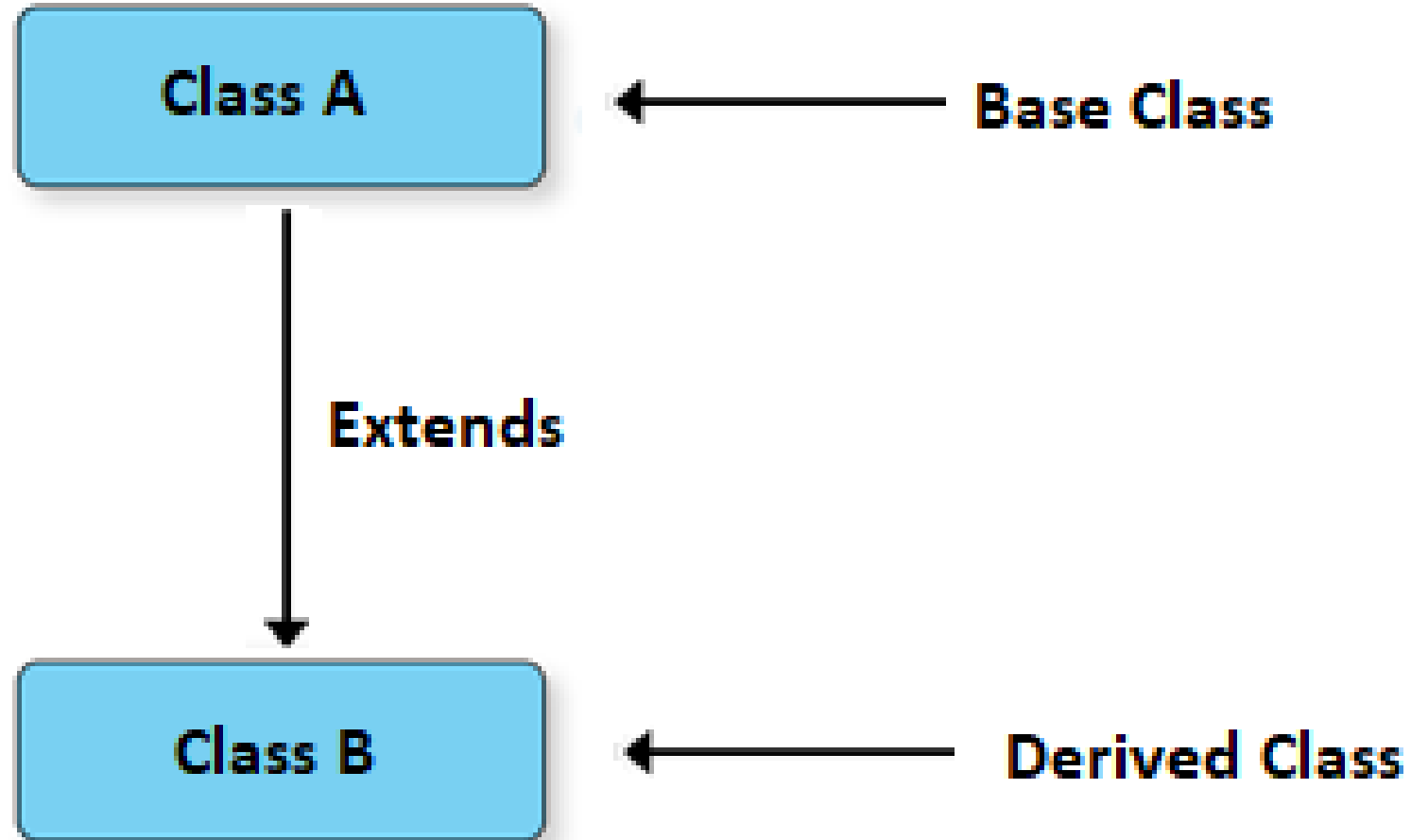
Inheritance

Packages

Unit 3  
Contents

# Inheritance

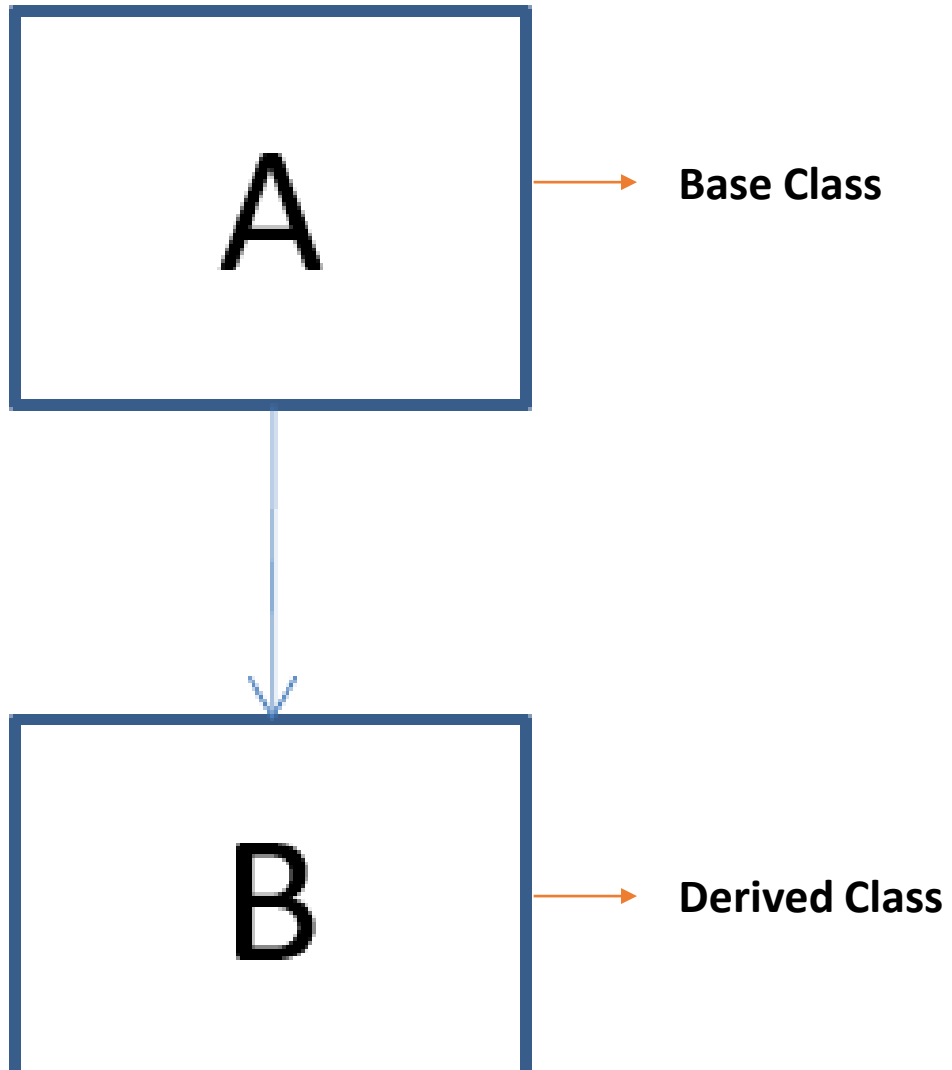
- The mechanism of deriving a new class from an old one is called inheritance.
- The old class is referred to as the base class and the new one is called the derived class or subclass.
- Inheritance provides the concept of reusability.
- The derived class inherits some or all of the traits from the base class.



Inheritance

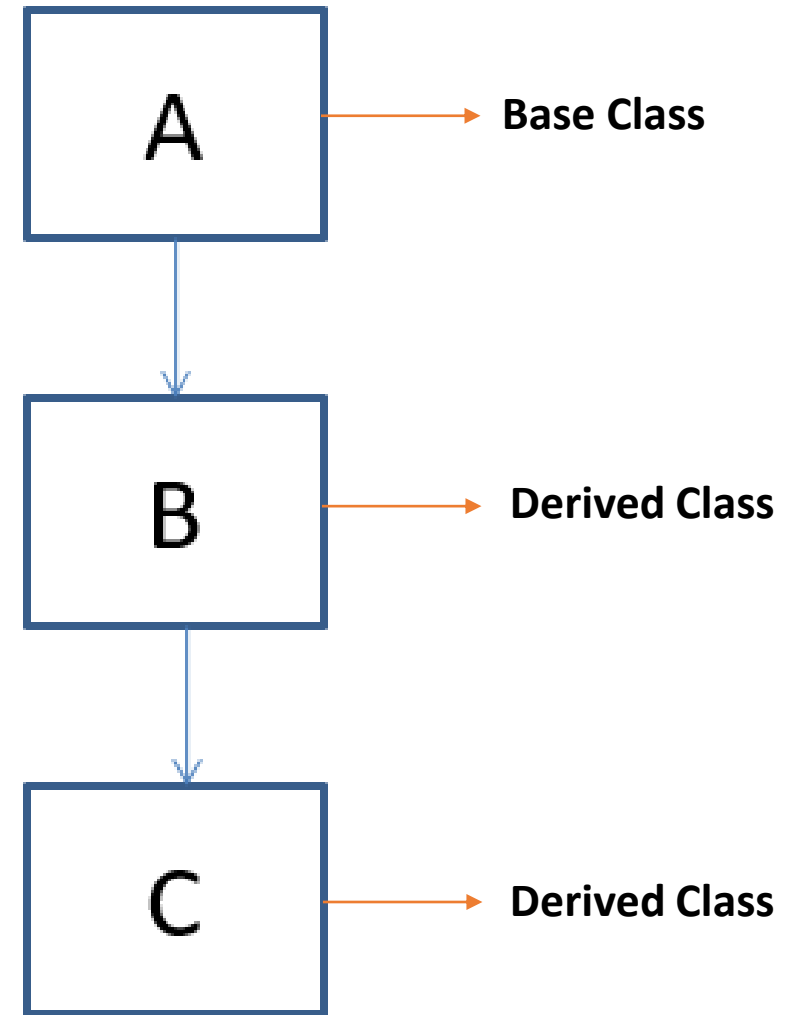
# Types of Inheritance

1. Single Inheritance
2. Multilevel Inheritance
3. Multiple Inheritance
4. Hierarchical Inheritance
5. Hybrid Inheritance

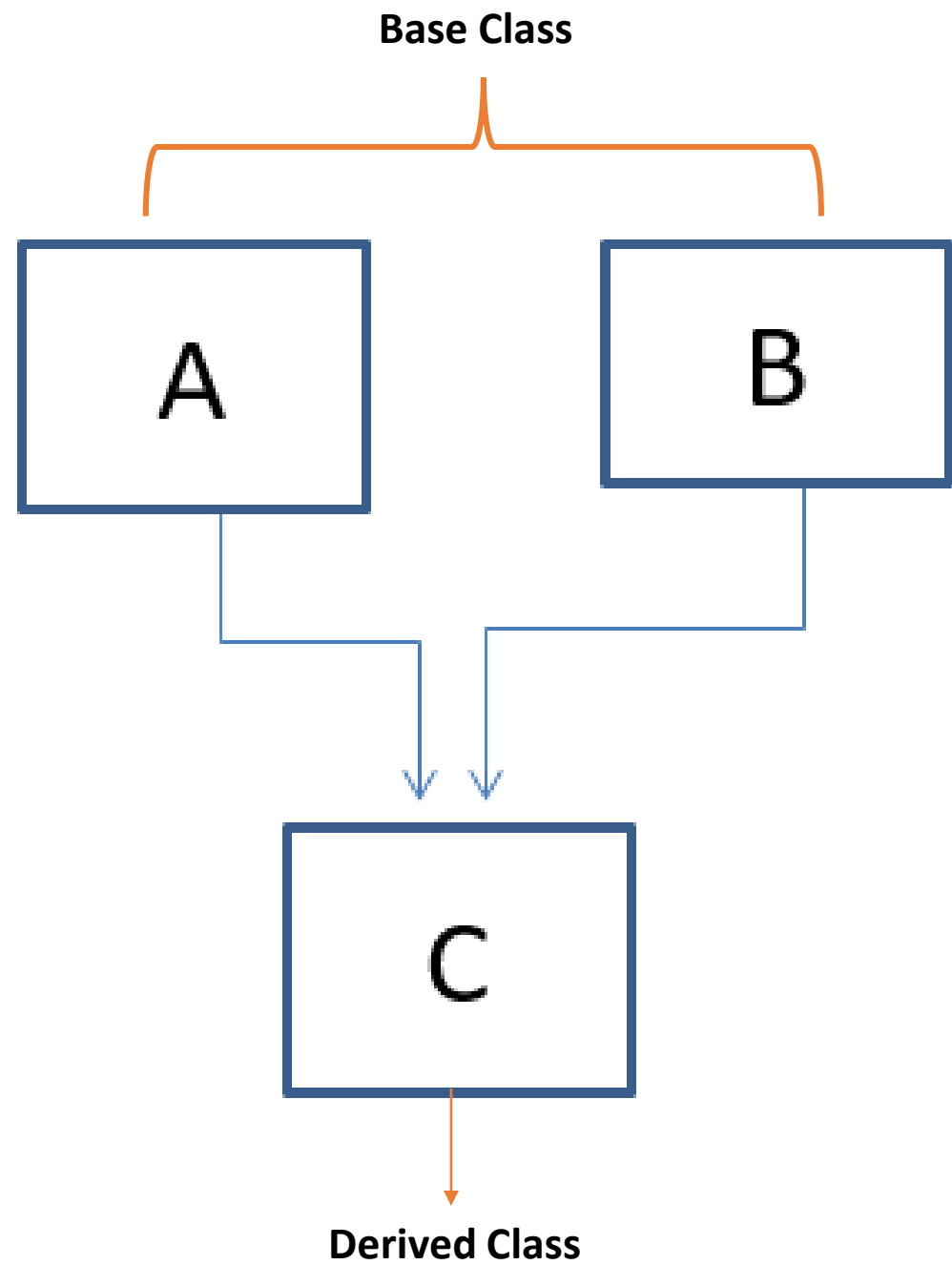


# Single Inheritance

# Multilevel Inheritance

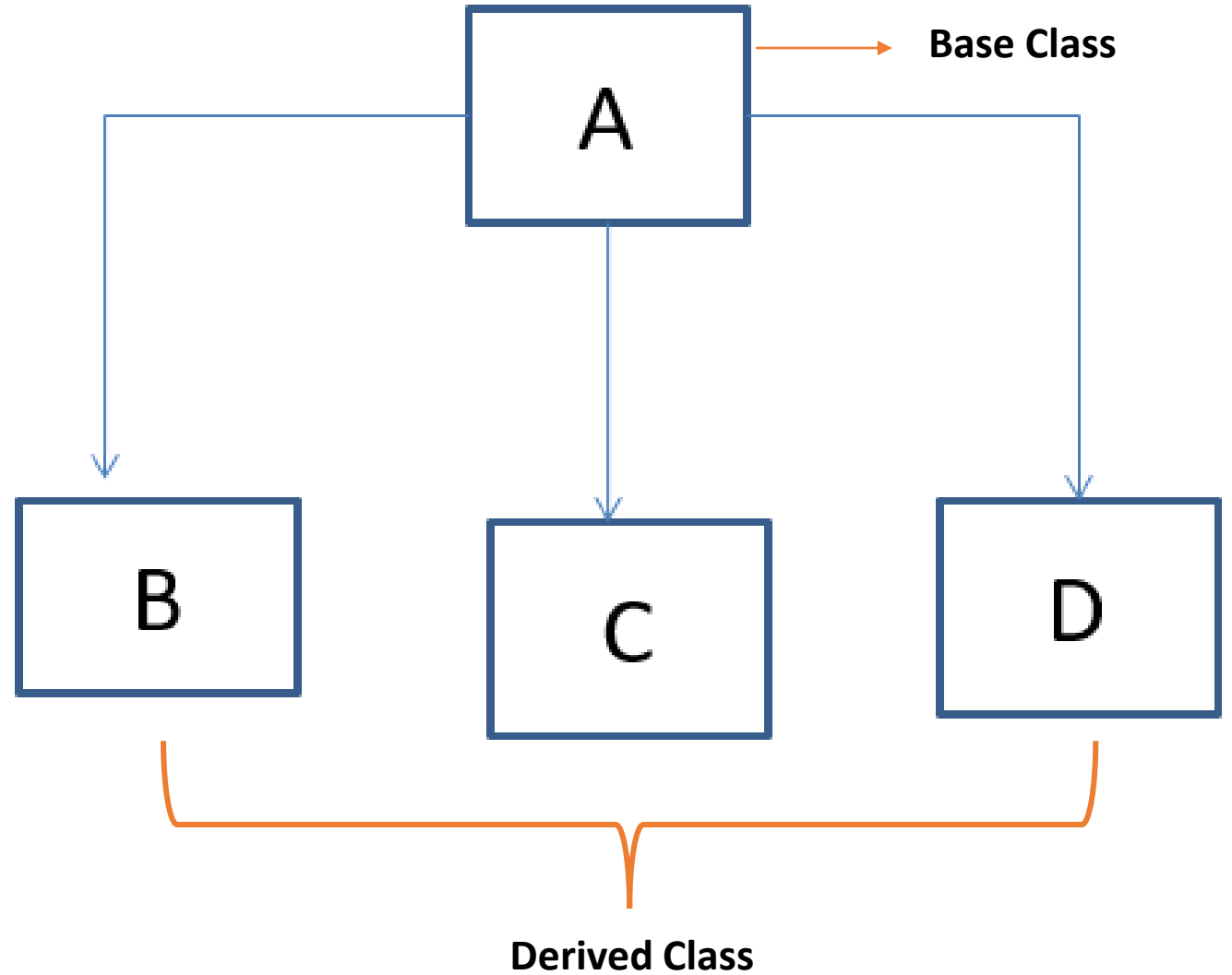


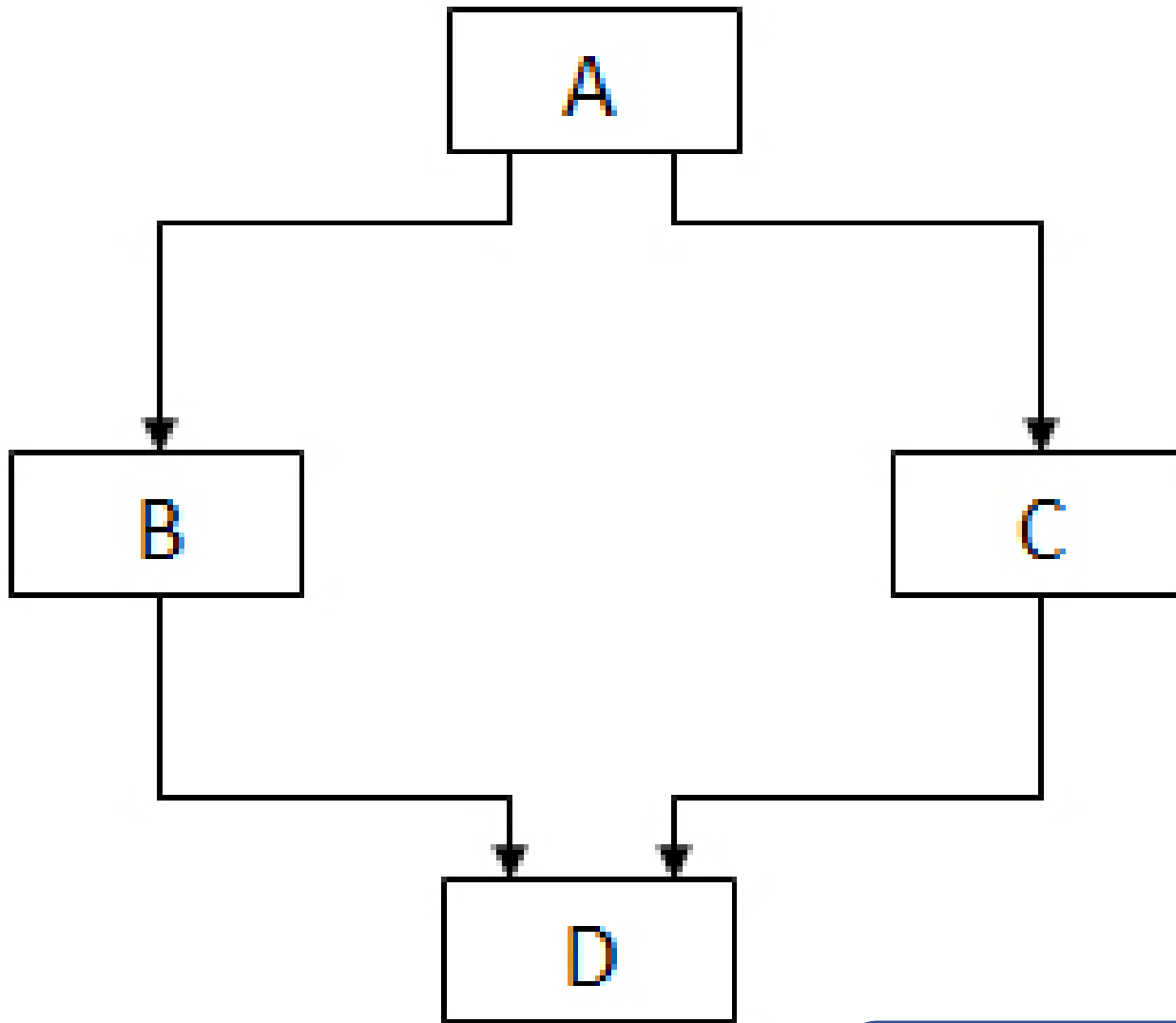
# Multiple Inheritance





# Hierarchical Inheritance






Hierarchical & Multiple  
Inheritance

# Hybrid Inheritance

# Super Keyword

The keyword super is used to invoke the constructor method of the superclass.



## Some rules while using super keyword

Super may only be used within a subclass constructor method.

The call to superclass constructor must appear as the first statement within the subclass constructor.

The parameters in the super call must match the order and type of the instance variable declared in the superclass.



Thank You