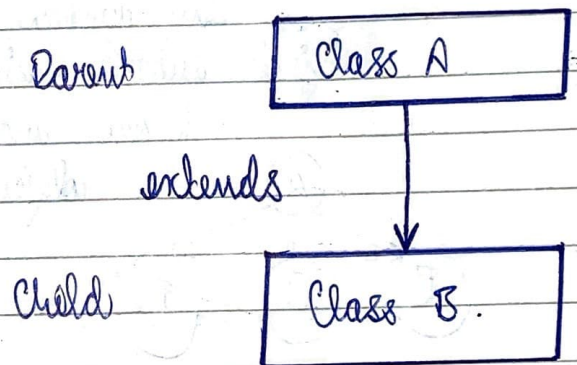## : Java Inheritance :

Inheritance :

[•] One of the key feature of OOP that allows us to create a new class from an existing class.

- The new class created is known as subclass (child or derived class).

- The existing class from where the child class is derived is known as superclass [parent cor base class].

Parent | Class A |

extends

Child | Class B. |

→ **Method Overriding** ←

Method Overriding :

- If a subclass providing the specific implementation of the method that has been declared by one of its parent class, it is known as method overriding.

- Method overriding is also known as runtime polymorphism.

  Hence, we can achieve Polymorphism in java with the help of inheritance.

→ Multi level Inheritance :

The Inheritance in which a class can be derived from another derived class

```
A
↑
B
↑
C
```

→ Multiple Inheritance :

In which a class or an object inherits characteristics and properties from more than one parent class or object.

```
      A
    ↙ ↓ ↘
   B   C   D
```