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FACULTY OF Engineering &
Technology

Static:

1. The static keyword belongs to the class than an instance of the class.
2. applicable for variables, methods, blocks and nested classes
3. static keyword is used

Example:

```
class Student
{
    static int rollno=1;
    String name;
    String college="ITS";
}
```

Static method

If you apply static keyword with any method, it is known as static method.

1. A static method belongs to the class rather than the object of a class.
2. A static method can be invoked without the need for creating an instance of a class.
3. A static method can access static data member and can change the value of it.

Inheritance

In Java, it is possible to inherit attributes and methods from one class to another.

subclass (child class or derived class) - the class that inherits from another class

superclass (parent class or base class) - the class being inherited from

To inherit from a class, use the **extends** keyword.

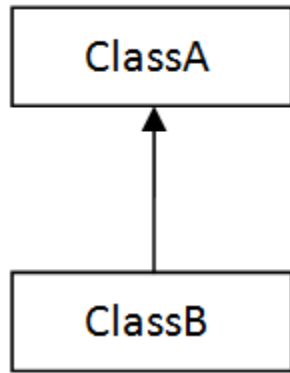
Example:

```
class A
{
class B extends A
{
```

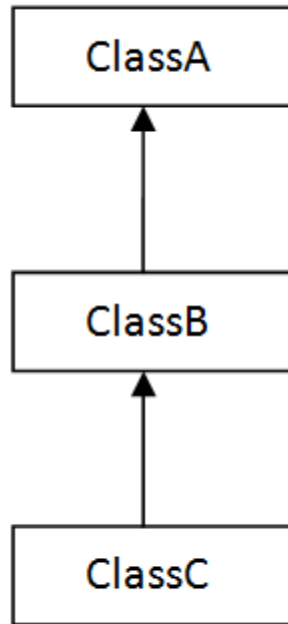
Here class B inherits the class A

Types of Inheritance:

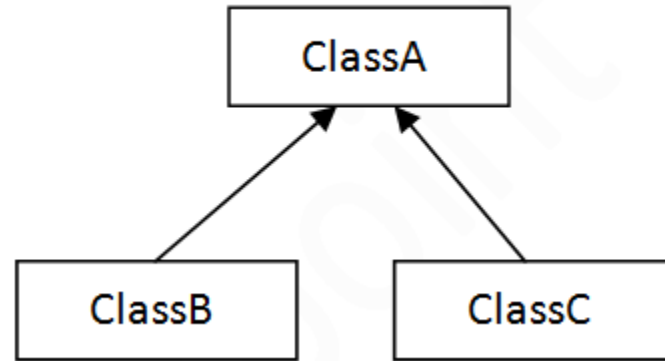
1. Single Inheritance
2. Multilevel Inheritance
3. Multiple Inheritance
4. Hierarchal Inheritance
5. Hybrid Inheritance



1) Single



2) Multilevel



3) Hierarchical

In java Multiple Inheritance is not supported in case of classes