Inheritance: one class aquires (приобретает) properties (methods and fields) of another class!

Why? For reusability

How? Using extends keyword

Subclass ( child class)

Superclass (base class or parent class)

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Important points

- Subclass can have it's own methods and fields in addition to Superclass's methods and fields

- Subclass can have only one Superclass. In other words, multiple inheritance is not supported

- Subclass cannot inherit Superclass's constructor, but it can invoke the constructor

Types

Single inheritance (class B inherit class A)

Multilevel inheritance (class C inherits class B, class B inherits class A, so eventually class C inherit class A)

Hierarchical inheritance (class B, class C, class D, all of them inherits the same class A)

Multiple inheritance (using interface)

super keyword

- Used to differentiate (дифференцировать) members of Superclass from members of Subclass, if they have same names

- Used to invoke the constructor of Superclass from Subclass