

Inheritance Notes

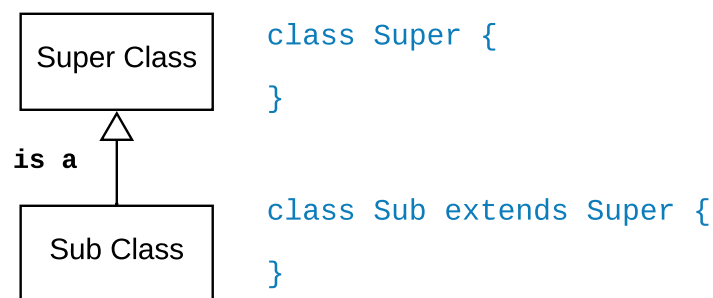
Inheritance - Code reuse - avoid duplication of code - establish "**is-a**" between classes

Super Class - The parent class in the relationship - contains **general characteristics** and behaviors.
aka Base class, Parent class

Sub Class - The child class in the relationship - more **specific characteristics** and behaviors.
aka Derived class, Child class

the **extends** keyword in the sub class definition identifies Inheritance.

The sub class inherits (has available) all the data and methods of the super class.



When a sub class is instantiated an instance of the **base class is automatically** instantiated for it.

Any **sub class constructor is required to invoke a super class constructor** to assure the super class is properly initialized - a special method name is used to invoke the super class ctor: **super()**

a **constructor** is a method that initializes an object of the class.

