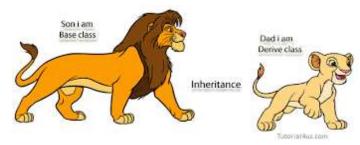
Contents

Inheritance & Polymorphism

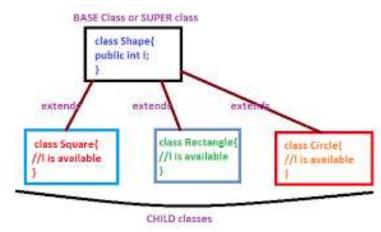
Inheritance:

- Child class (sub class) automatically inherits the variables and methods defined in its parent class (super class).
- This allows to reuse existing class members and make them extendible either for enhancement or alteration.



Extends keyword:

class Base { //code }
class Derived extends Base { //code }

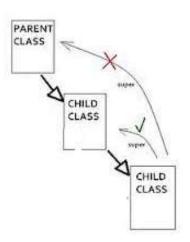


super

It is a reference variable used to refer the immediate parent class object

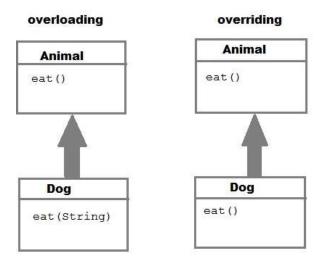
- super() invokes immediate parent class constructor
- Call member (variables & methods) of parent class

Syntax: super.baseclassMemberName



Overloading & Overriding

Overloading	(compile	time	Overriding (run time polymorphism)
polymorphism)			
Two or more methods within the same class			A method in a subclass has the same name
share the same	name but	parameter	and type signature as a method in its super
declarations are dif	ferent.		class, then the subclass method overrides
You can overload Constructors and Normal			the super class method.
Methods.			Overridden methods allow Java to support
			run-time polymorphism



Overriding class Dog{ public void bark() { System.out.println("woof"); } Same Method Name. Same parameter class Hound extends Dog{ public void sniff() { System.out.println("sniff"); } public void bark() { System.out.println("bowl"); } }

Overloading

final

- Restrict changing value of variables

- Restricts inheritance. Therefore, restricts method overriding

