

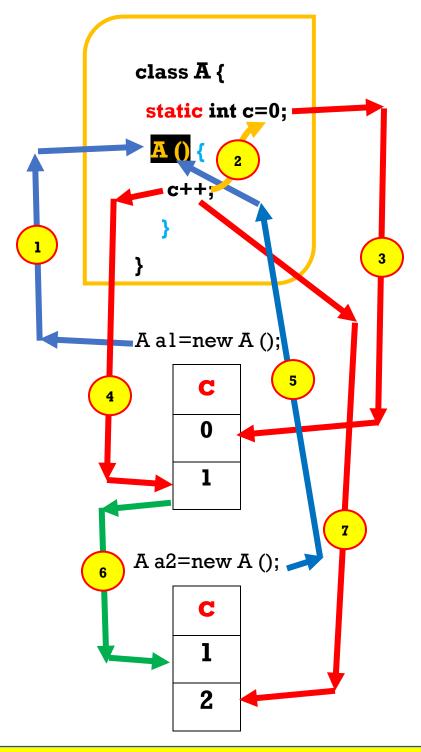
	Normal Class	Abstract Class	Interface	Final class
Normal Class	CAN EXTEND CANNNOT IMPLEMENT	CAN EXTEND CANNNOT IMPLEMENT	CANNOT EXTEND CAN IMPLEMENT	CANNOT EXTEND CANNNOT IMPLEMENT
Abstract Class	CAN EXTEND CANNNOT IMPLEMENT	CAN EXTEND CANNNOT IMPLEMENT	CANNOT EXTEND CAN IMPLEMENT	CANNOT EXTEND CANNNOT IMPLEMENT
Interface	CANNOT EXTEND CANNNOT IMPLEMENT	CANNOT EXTEND CANNNOT IMPLEMENT	CAN EXTEND CANNOT IMPLEMENT	CANNOT EXTEND CANNNOT IMPLEMENT
Final class	CAN EXTEND CANNNOT IMPLEMENT	CAN EXTEND CANNNOT IMPLEMENT	CANNOT EXTEND CAN IMPLEMENT	CANNOT EXTEND CANNNOT IMPLEMENT

Main class

that has the static main method
 public static void main (String [] args)

- can create instances of only normal and final classes...!
- cannot create instances of an abstract of interface class





Static method: calls and occupies only static methods and attributes

Non-Static method: calls and occupies both static and non-static methods and attributes



	class	constructor	attribute	method
final	before		before	before
static			before	before
abstract	before			before
interface	before			
extends	In between			
implements	In between			
return				At the end
void				before
public	before	before	before	before
protected	before	before	before	before
private	before	before	before	before

Method	Method	Abstract
overload	override	method
In same class	 From child class 	Partially implemented
 Same name+ different parameters/ parameters' count/ return type 	 Same name+ parameters+ parameters' count+ return type as parent class's method 	No body "{}"Ended with ";"



super	this
	Access global variable of the
class inherited!	class itself!
Used to call the constructor	Used to call the constructor
of Parent class or inherited	of the class itself!
class from the Child class!	
Used to call the methods of	Used to call the methods of
the parent class when the	the child class when the
methods are overridden in	methods are overridden in
the child class and you need	the child class and you need
to specify your selection	to specify your selection
between the parent and the	between the parent and the
child class from the child	child class from the child
class!	class!

Global
Variable/Attribute/
Property

Located(initiated) outside of the methods and every method gets access to those.

Located(initiated) the methods or parameters of the result of the method only the methods.

Local Variable/Attribute/ Property

the methods or in the parameters of the methods and only the specific method itself has access to those.



Some Golden Rule

- Multiple inheritance
 - One class cannot have multiple inheritance
 - One class can be inherited by multiple class (Single in heritance+ Hierarchical/Level wise inheritance)

A extends B

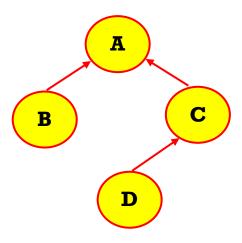
B extends A

Hierarchical/Level wise inheritance

D extends C

C extends A

B extends A





Create instance/object or reference of a class

If (normal class or final class or parent class), then call (): the specific constructor...!

else if (child class), then

call (): default constructor of the immediate parent class...!

call (): the specific constructor of child class...!

else //abstract or interface class

msg (): cannot create instance

Level wise access

D extends C

A

B

C extends B

B extends A

Will get	The a	The attributes and methods of		
Α	Α			
В	Α	В		
С	Α	В	C	
D	Α	В	C	D



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