parent - child

Inheritance $\rightarrow$ TV $\rightarrow$ B + W

concept

TV
$\downarrow$
LEDs $\rightarrow$ Look

Calculator

$\rightarrow$ Computers $\rightarrow$

$\downarrow$

Sci - Cal $\rightarrow$ Additional

$\downarrow$

What ?

To inherit the properties of parent class into child one.
=

→ Single Level

→ Multi Level

→ Multiple → X

→ Hierarchical

→ Hybrid → X

Class < child class -name >
              extends
        < parent . class -name >

interface

Why ? for code reusability

(I) Single Level :-

Father   A → parent / Base / Super

extends
&
Keyword

Son   B → child / subclass

child extends Parent

$a, m1()$ class A → prop, objects, methods, ^{variables} constructor

↑

extends

A → var, method

↑

$a, m1()$ class B → m2()

B → A + self

(Testing) → Manual

Tester → Manual + Automation

(Tester) — SDET + API + DB

parent class

child class extends
parent

```
p1 ( ) {



}
```

← child obj = new
Child();

JVM
↳
call default const of child

child ( ) {
super();

}

parent Class	Child Class	behavior
having Constructor without params	No Constructor	it will Call the const of parent class implcitily
No Constructor	having Constructor without params	it will Call the const of child class
Having one const with Param	having Constructor without params	
having Constructor without params	Having one const with Param	
Const. overloading - more than one const	Const. overloading - more than one const	
having Constructor without params	having Constructor without params	it will call the const of parent class first then child class const.