Selenium WebDriver Training

Java OOPs - Inheritance

Inheritance

- It is the concept of building relationship between two similar classes (parent to child).

- To have common functions

- To avoid duplicate implementations

- To reduce code

- It can be applied to any similar types
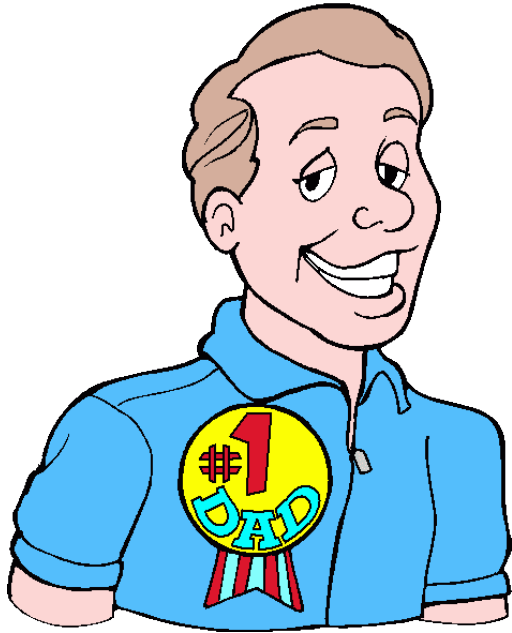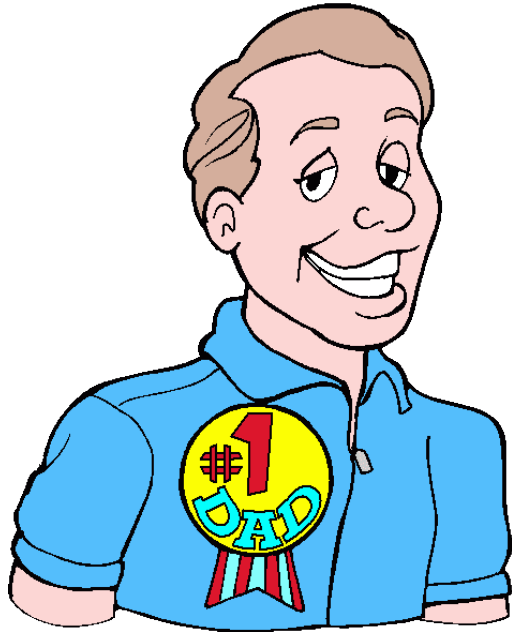   -> class to class
        -> Interface to Interface

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Inheritance

Grand Father / Super / Base class

My Father class

Sub Class / Derived Class
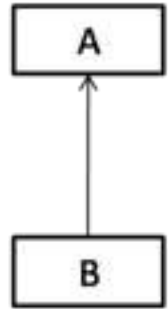
My class

I extends My Father extends My Grandfather
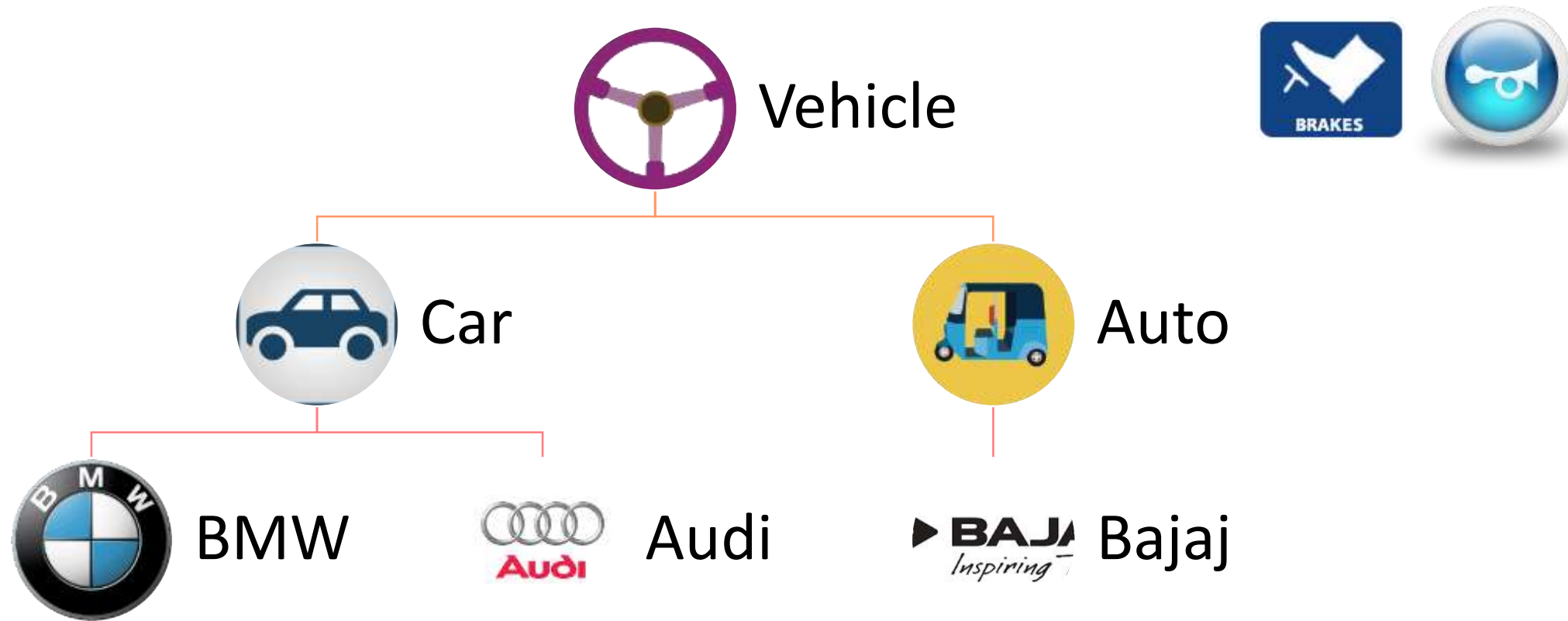
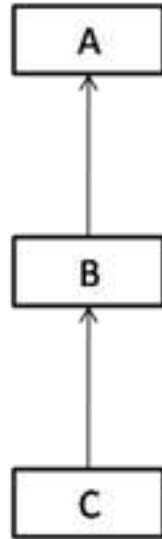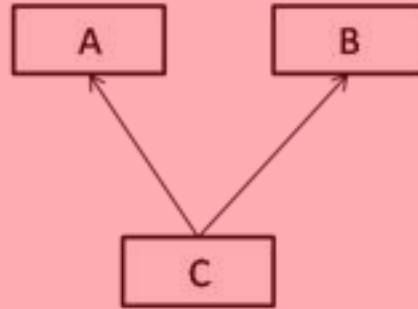# Inheritance (Another Example)

Inheritance Types
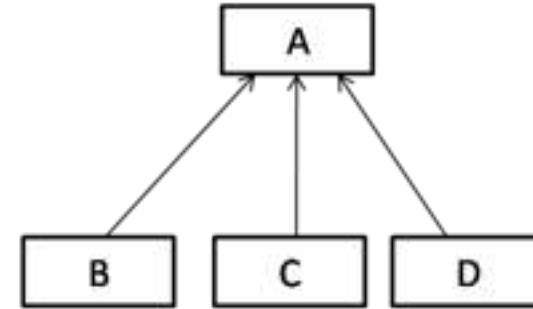

Simple Inheritance

Multi-level Inheritance

Multiple Inheritance

Hierarchical Inheritance
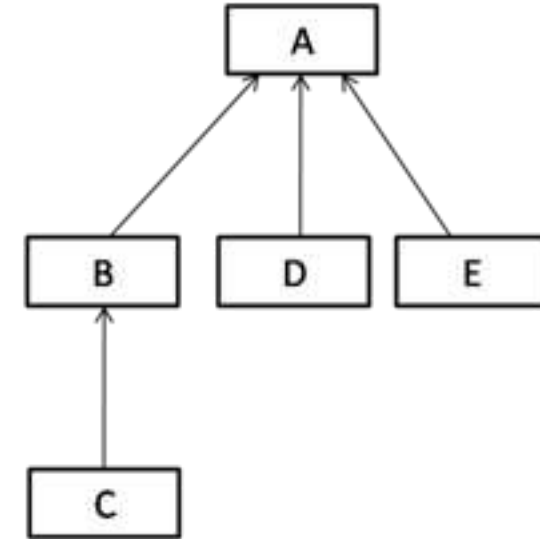
Hybrid Inheritance
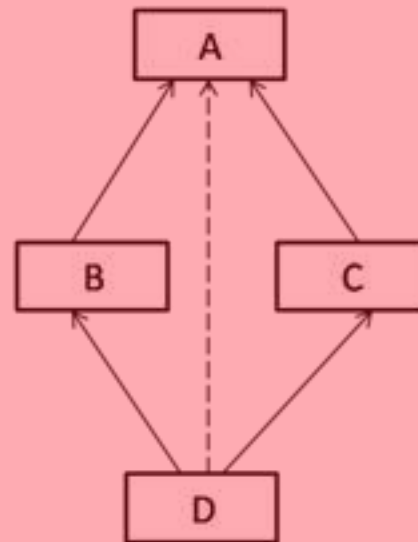
Multipath Inheritance

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Summary

- Inheritance – **extends** keyword

- Class can extends another class, interface can extends another interface

- Inheritance – **extends** keyword

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Always Ahead

Classroom (Breakout)

1) Create iOS (Super Class)
- startApp
- increaseVolume
- shutdown

2) Create iPhone extends iOS
- makeCall
- sendSMS

3) Create iPad extends iOS
- watchMovie

4) Create a class (MyPhone) with main method
- Create Object for iPhone
- Confirm you can access 5 methods !!
- Confirm you cannot access iPad methods.

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Interview Prep

INHERITANCE / **INTERVIEW PREP KIT**

Concept (15 – 20 Seconds)

2 Liner about Inheritance (What)
Benefits of Inheritance (Why)
Keywords to build relations (How)
Inheritance Types (Optional)

Java Examples (10 – 15 Seconds)

List (Sub Interface) <------- Collection (Super Interface)
ArrayList (Sub Class) <-------- AbstractList (Super Class)
2 Liner about few methods on above designs

Project / Framework Examples (10 – 15 Seconds)

Test Classes (Sub Class) <-- Base Classes (Super Class)
<-- Wrapper Class (Super Class) <-- Reporter (Super most)
2 Liner about few methods on above designs

Selenium WebDriver Examples (10 – 15 Seconds)

WebDriver (Sub Interface) <-- SearchContext (Super Interface)
ChromeDriver (Sub Class) <-- ChromiumDriver (Super Class)
<-- RemoteWeDriver (Super / Parent Class)
2 Liner about few methods on above designs

Testleaf
Always Ahead