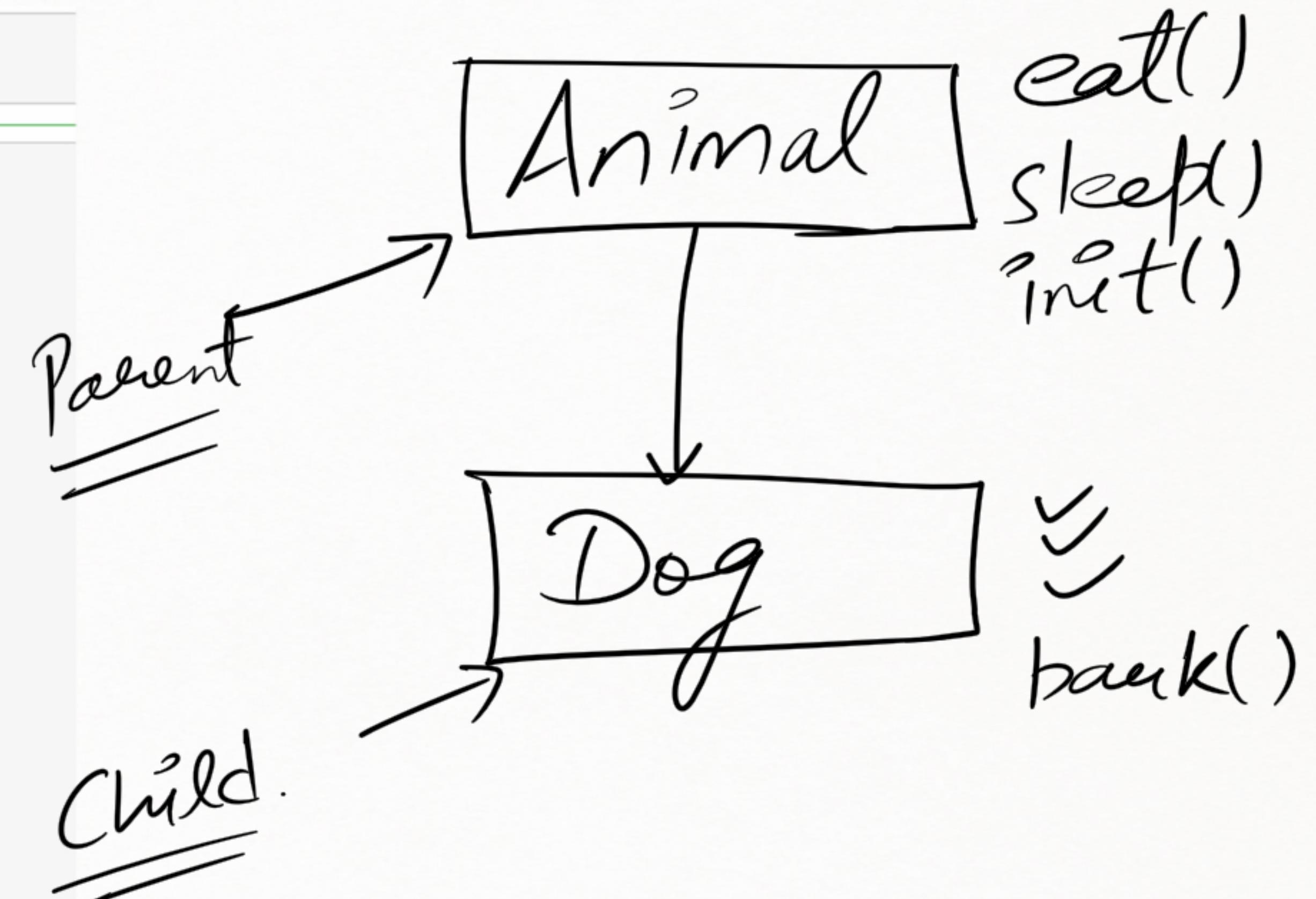


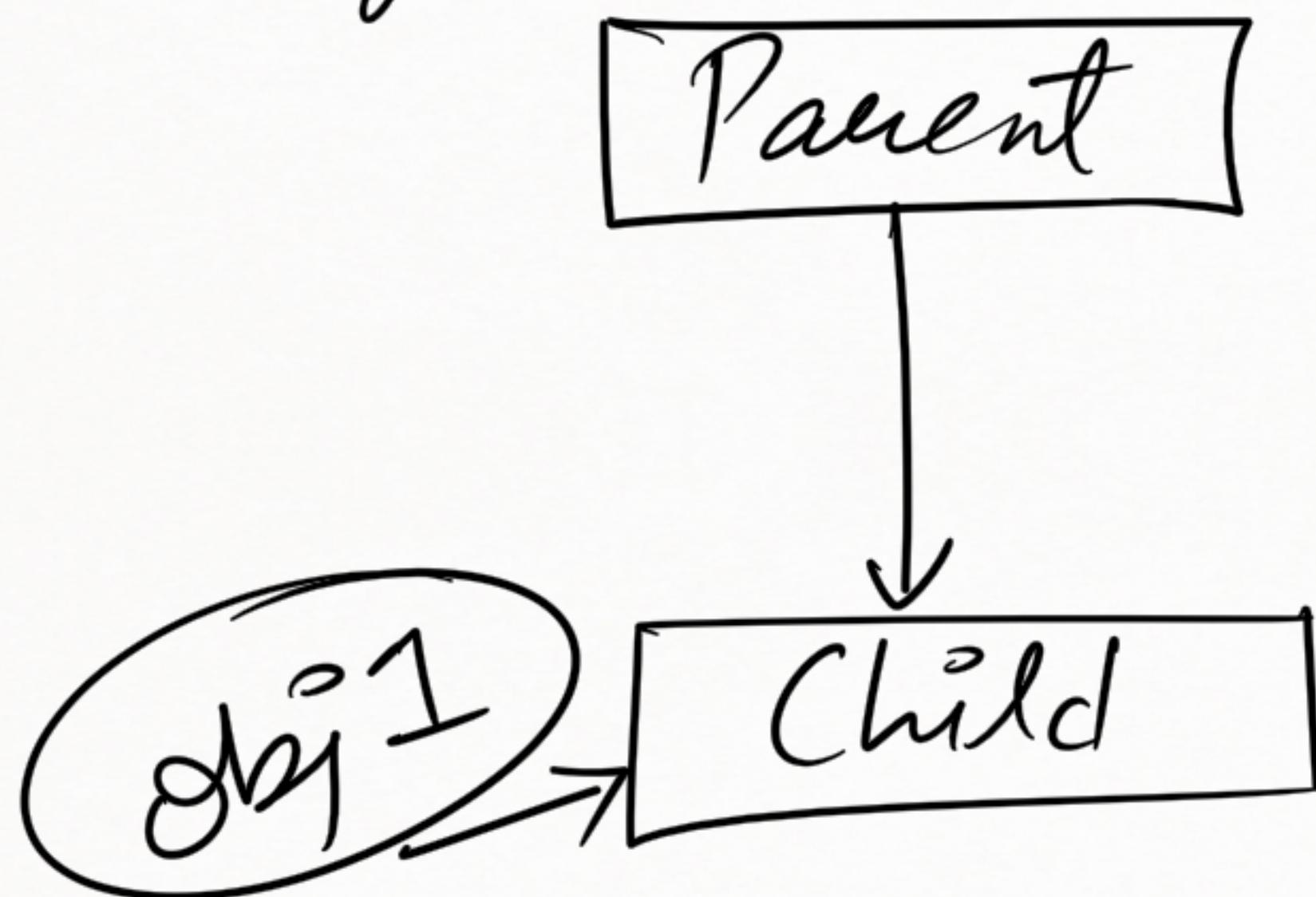
```
In [ ]: # Inheritance
```

```
In [1]: class Animal:  
    animal = None  
    def __init__(self, name, age):  
        self.name = name  
        self.age = age  
  
    def eat(self):  
        print(self.name, ' is eating')  
  
    def sleep(self):  
        print(self.name, ' is sleeping')  
  
class Dog(Animal):  
    Animal.animal = 'Dog'  
    breed = None  
    def bark(self):  
        print(self.name, 'is barking')
```



Types of Inheritance

① Single Inheritance

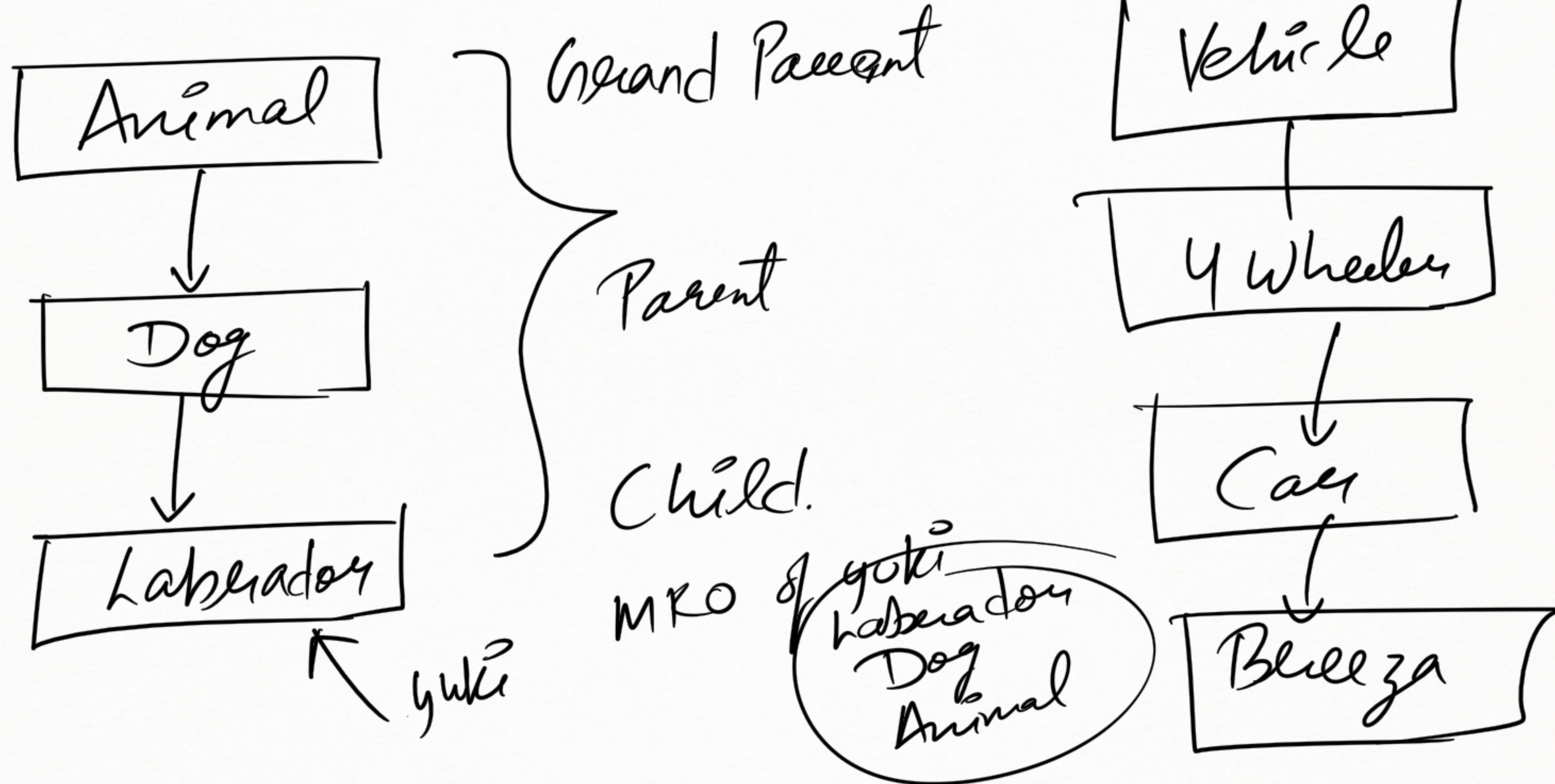


MRO => Method Resolution Order

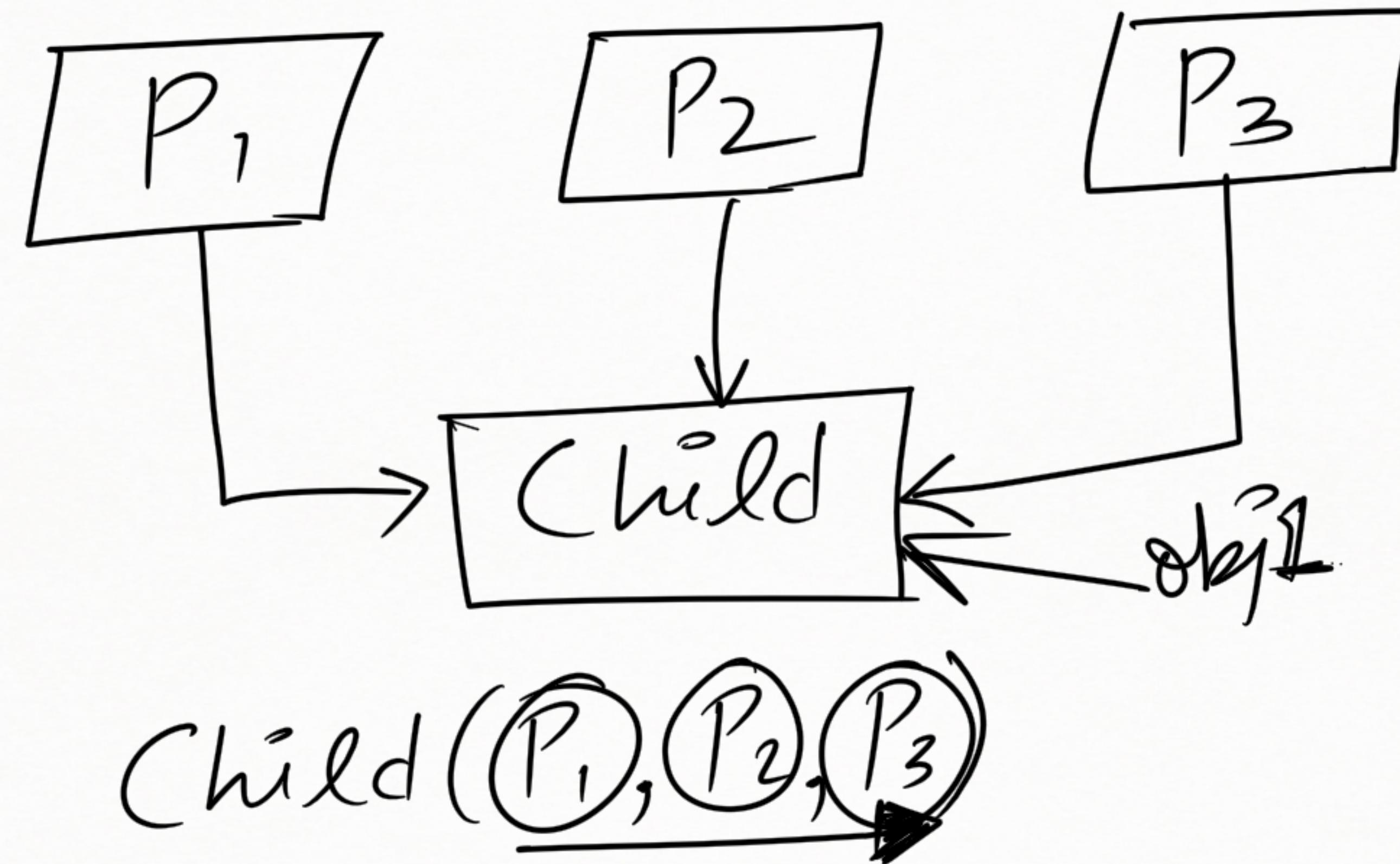
MRO of obj1

Child
Parent Dog
 Animal

② Multi-level Inheritance



③ Multiple Inheritance

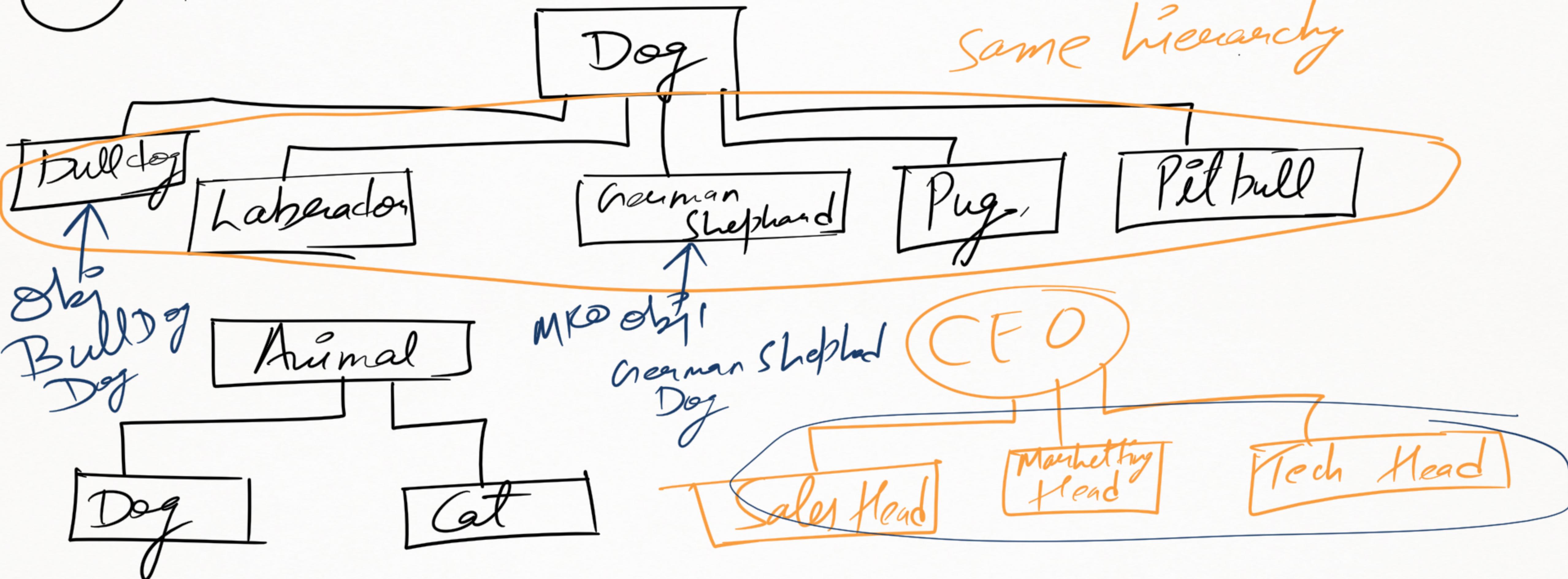


MRO of obj¹

Child ←
 P_1 ←

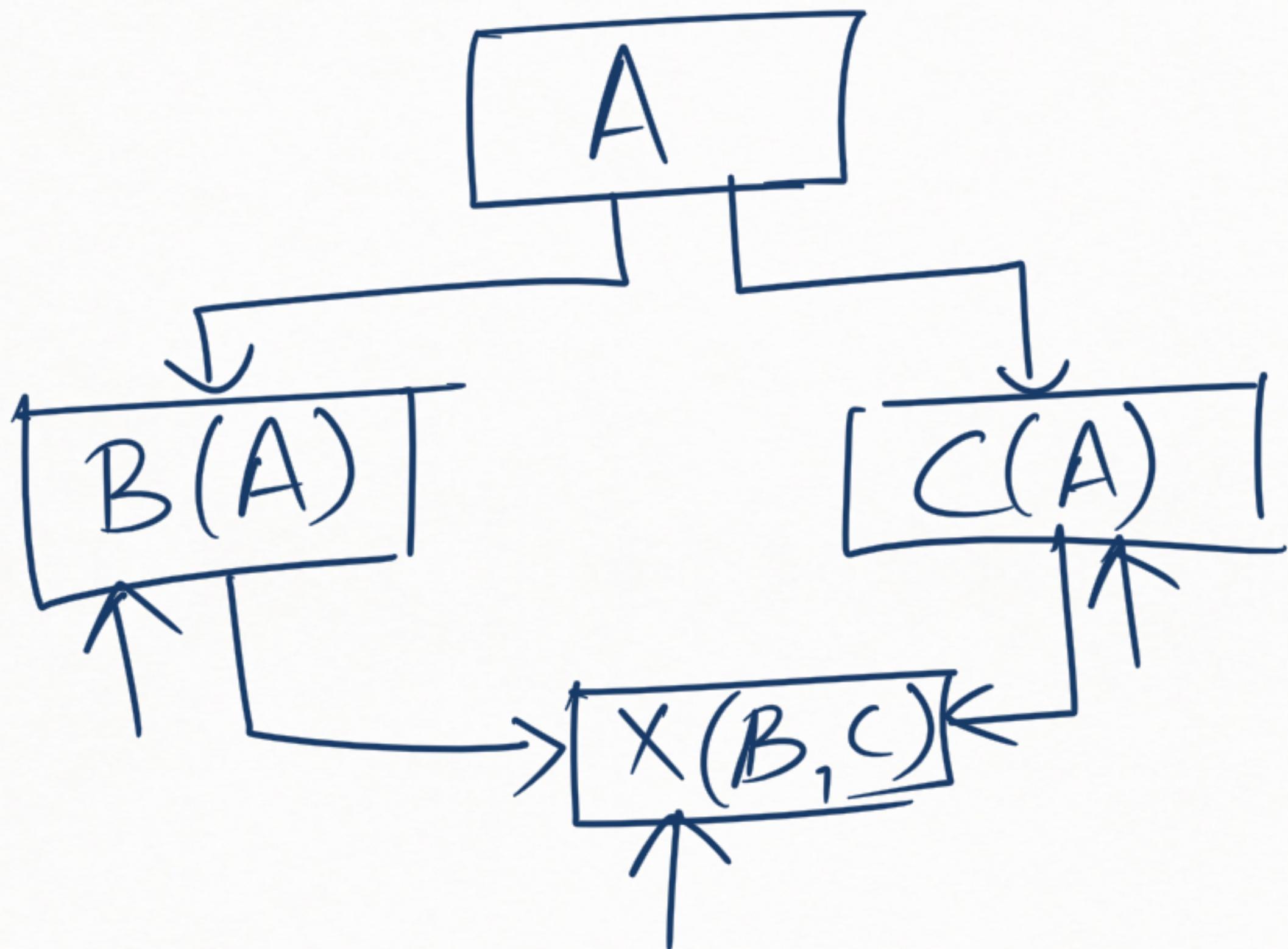
P_2 ←
 P_3 ←

④ Hierarchical Inheritance



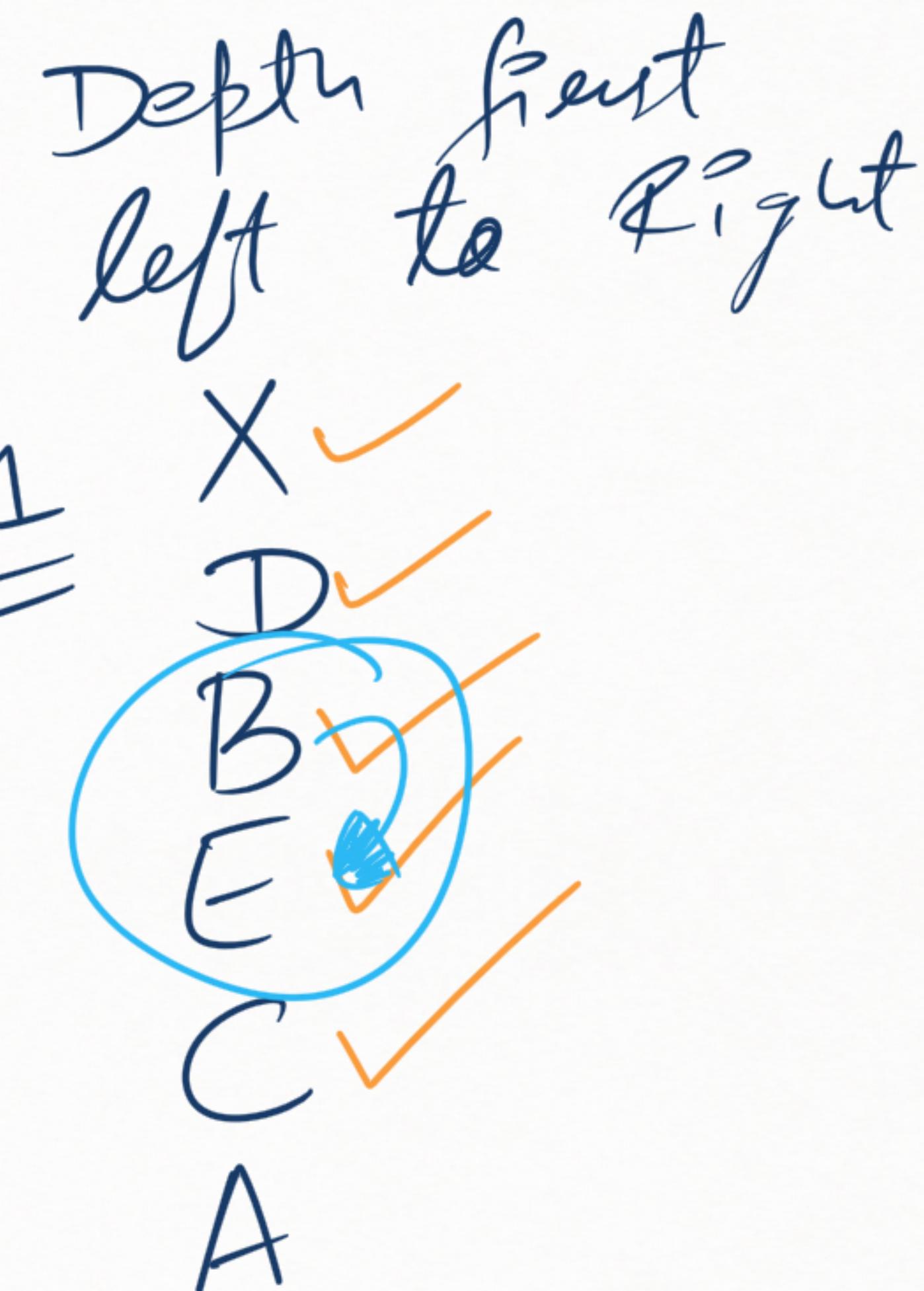
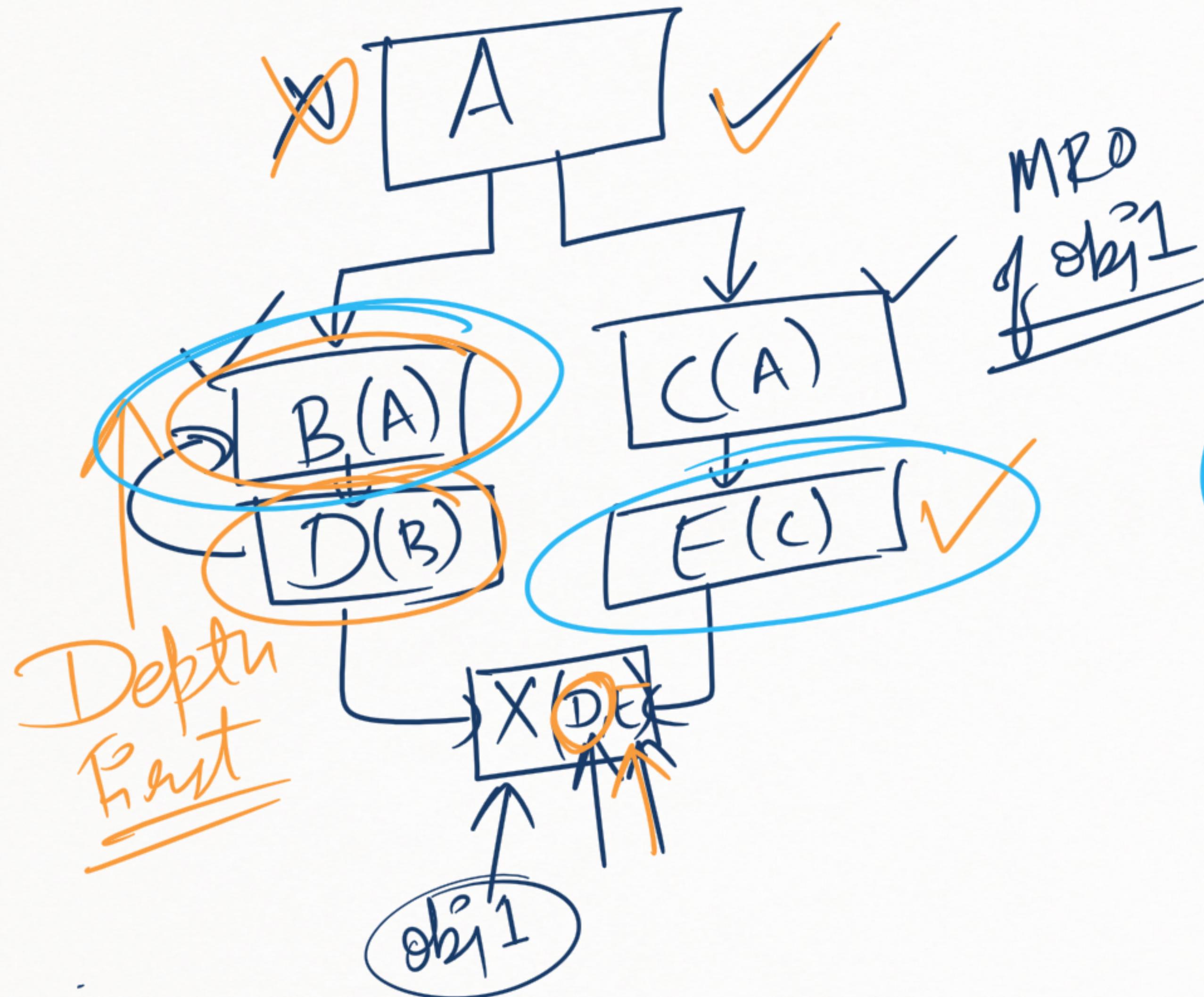
⑤ Hybrid Inheritance

X
B
C
A



MRO
Depth

First left
to Right



Super() Keyword

Give Access to

MRO



to the class of Higgs

