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# OOPs Properties

## ① Encapsulation

↳ Binding attributes and methods together.

class CAR:

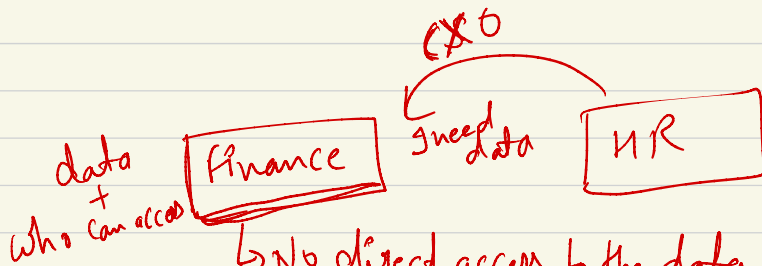
def \_\_init\_\_(self, name, color):

self.car\_name = name

self.color = color

def displayCarDetails(self):

print( )



↳ No direct access to the data

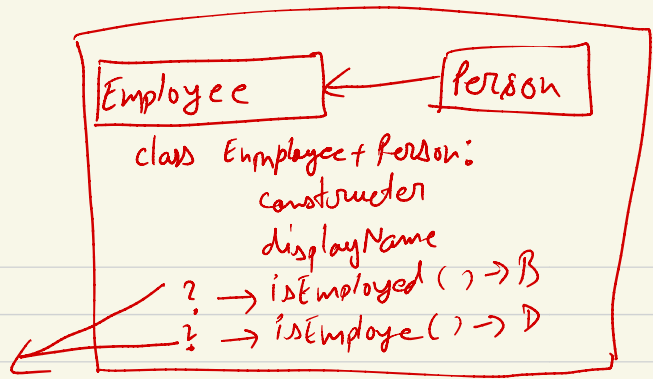
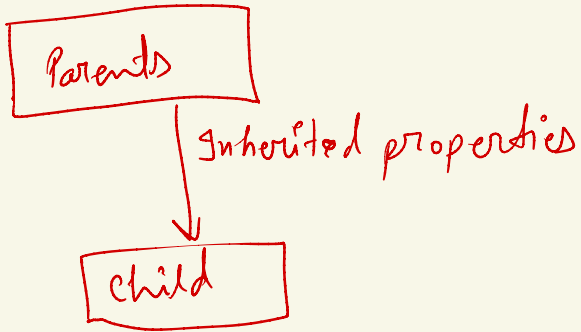
↳ CXO will make a request ~~add~~ to finance team representative

↳ FR has all the access on the Internal data

## Inheritance

↳ is the capability of one class to derive

or inherit the properties from another class.



## Polymorphism

↳ Same representation but different definition

↳ Overloading → not in python

↳ Overriding

example in Python

len() → str  
↑ → list  
→ tuple  
→ set  
→ Dictionary

function × Overloading

Java

int len(String str)  
✓ {  
==  
}

int len(Array<String> arr)  
✓ {  
==  
}