

Welcome back everyone

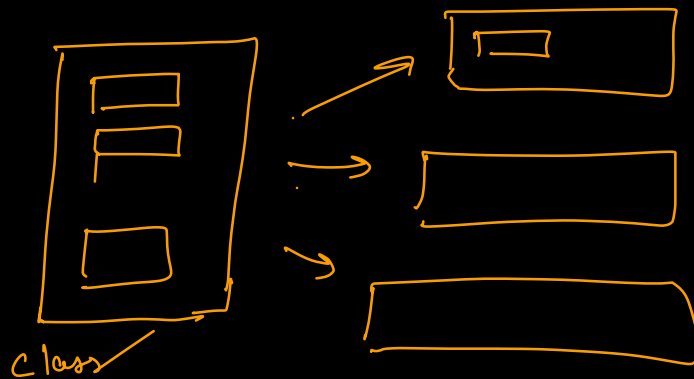
OOPS Class 3

⇒ Class relationship

⇒ Polymorphism

⇒ abstraction

⇒ Question



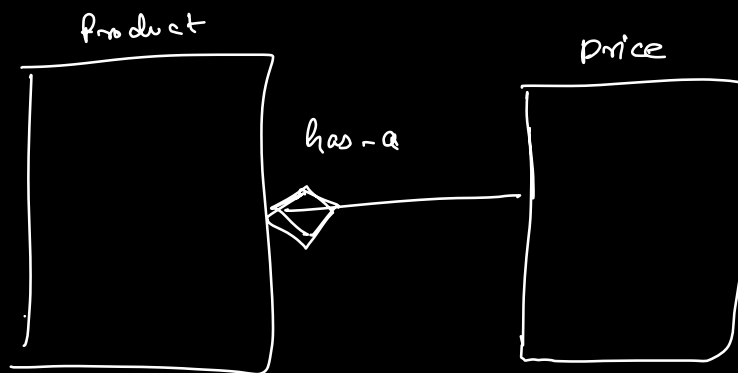
Class relationship

(has - a)
aggregation

Product
↳ price

(is - a)
~~inheritance~~

Product
↓
iphone

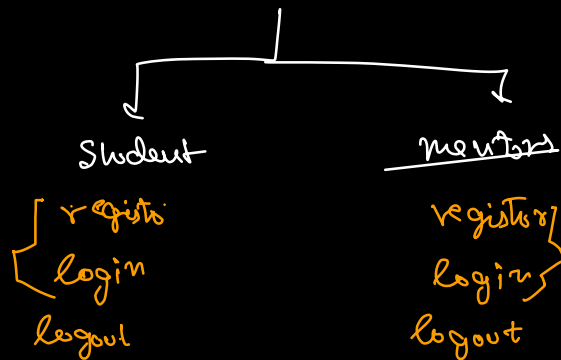


Inheritance

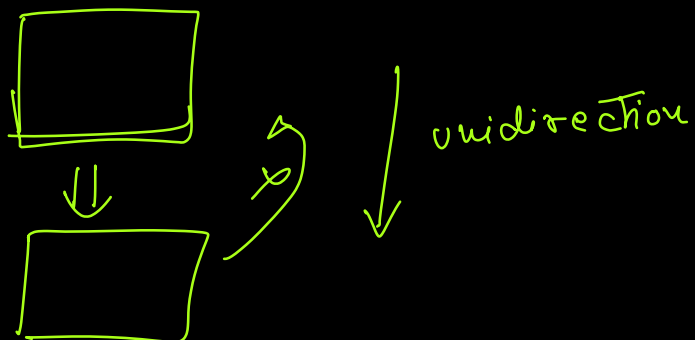


Inheritance

Ineuron
website



Code reusability is the biggest advantage.

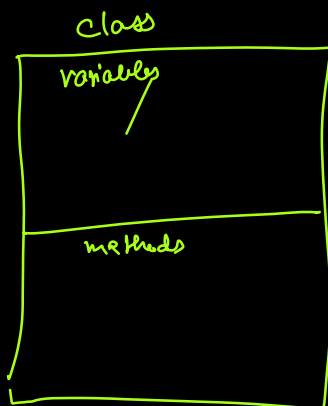
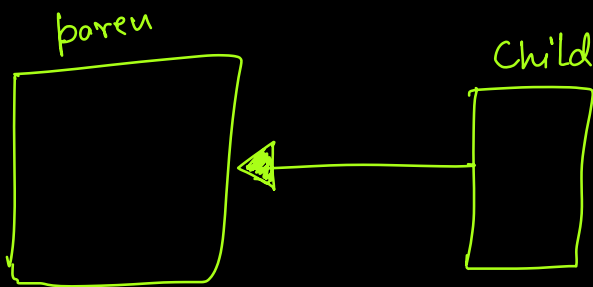


We inherit

methods
constructors
instance variables

but private are not inherited

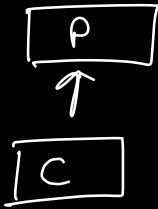
private \Rightarrow only you
protected \Rightarrow — — —
public \Rightarrow everyone



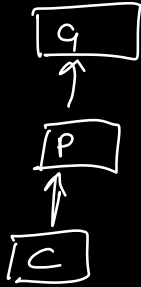
Types of Inheritance

↗ Java

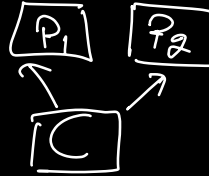
Single level



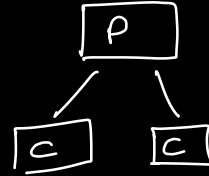
Multi level



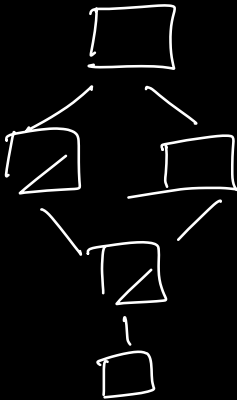
Multiple



Hierarchical



Hybrid



Poly morphism

↳ multiple forms

When a method and ~~operator~~
can behave in more than
one way.

→ method overriding ⇒

→ method overloading

→ operator overloading

Abstraction

abstract method

Concrete
methods.