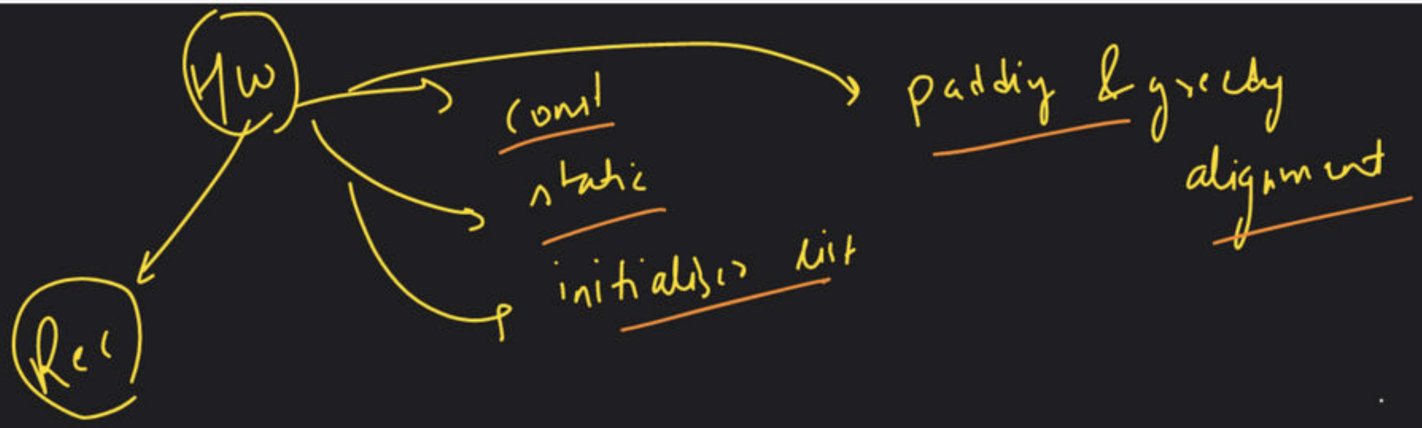
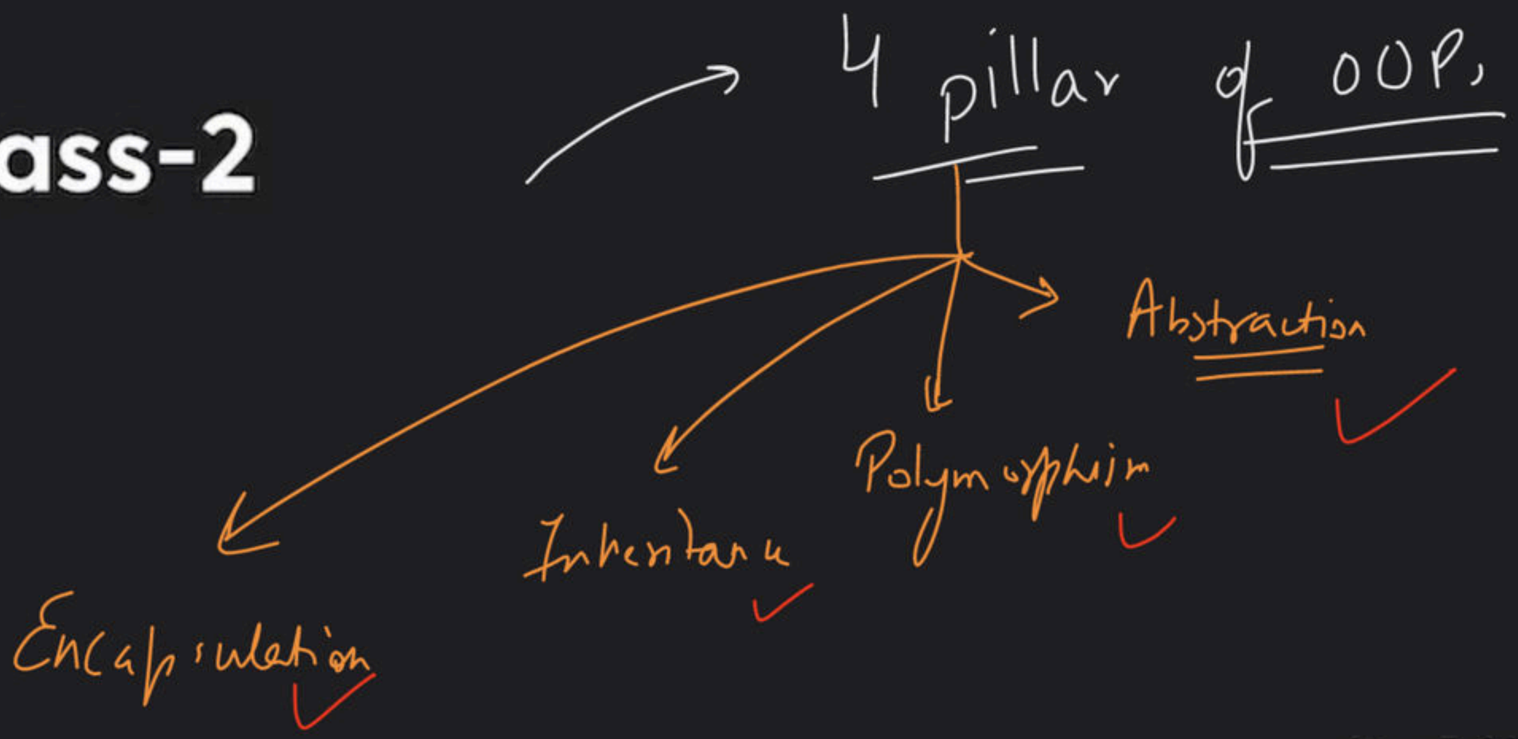


Pending

Deep & Shallow copy

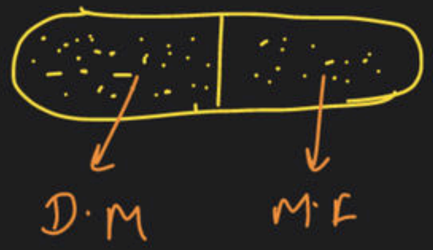
OOPs Class-2

Special class

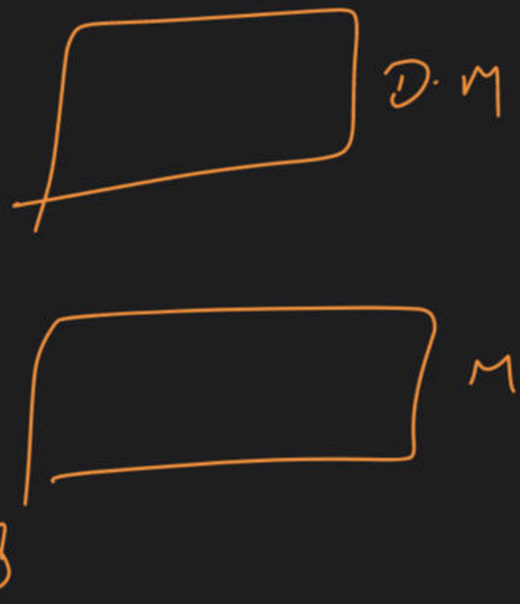


Love Babbar • Apr 2, 2023

Encapsulation :- (Data Hiding)



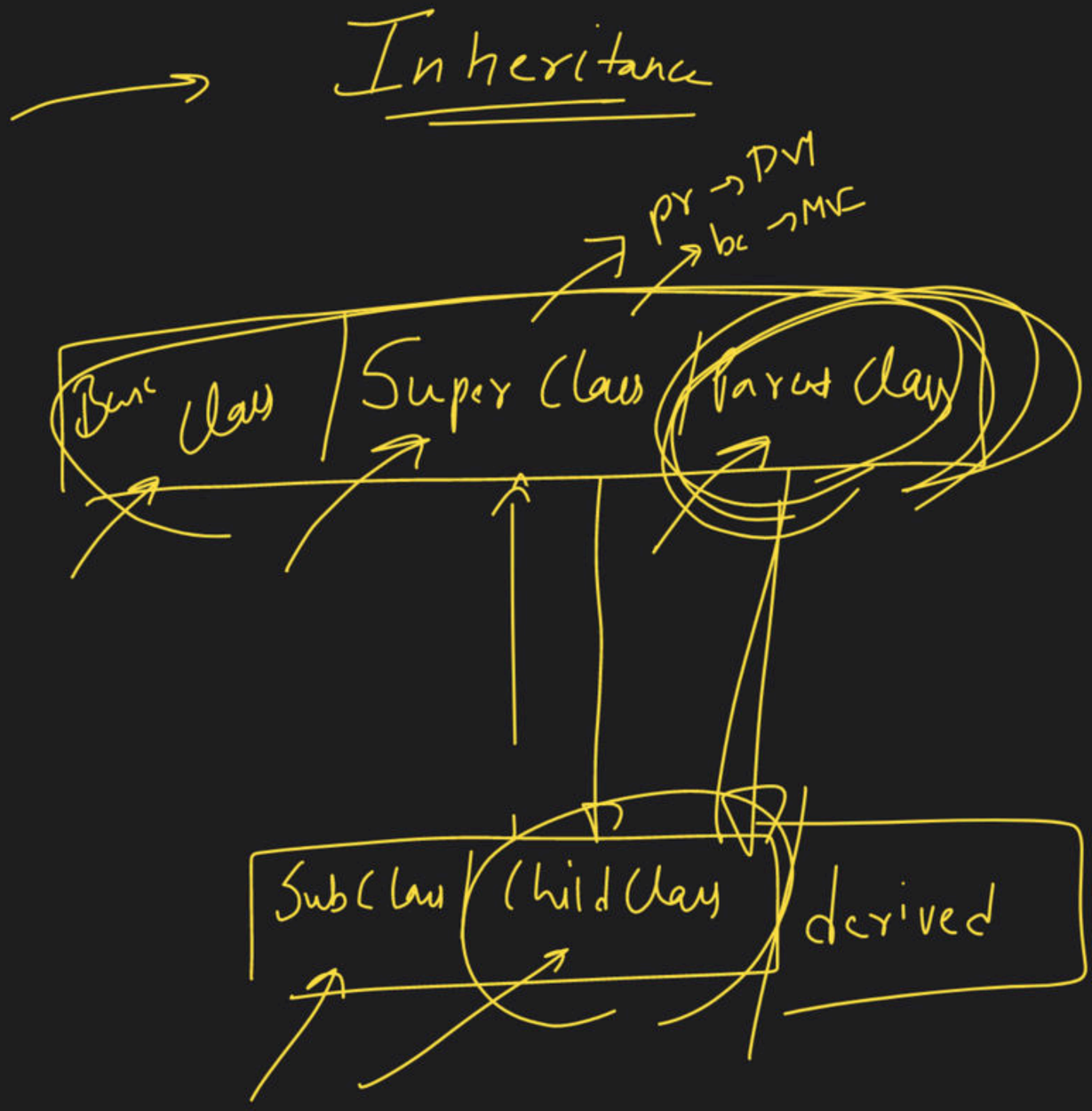
as a capsule

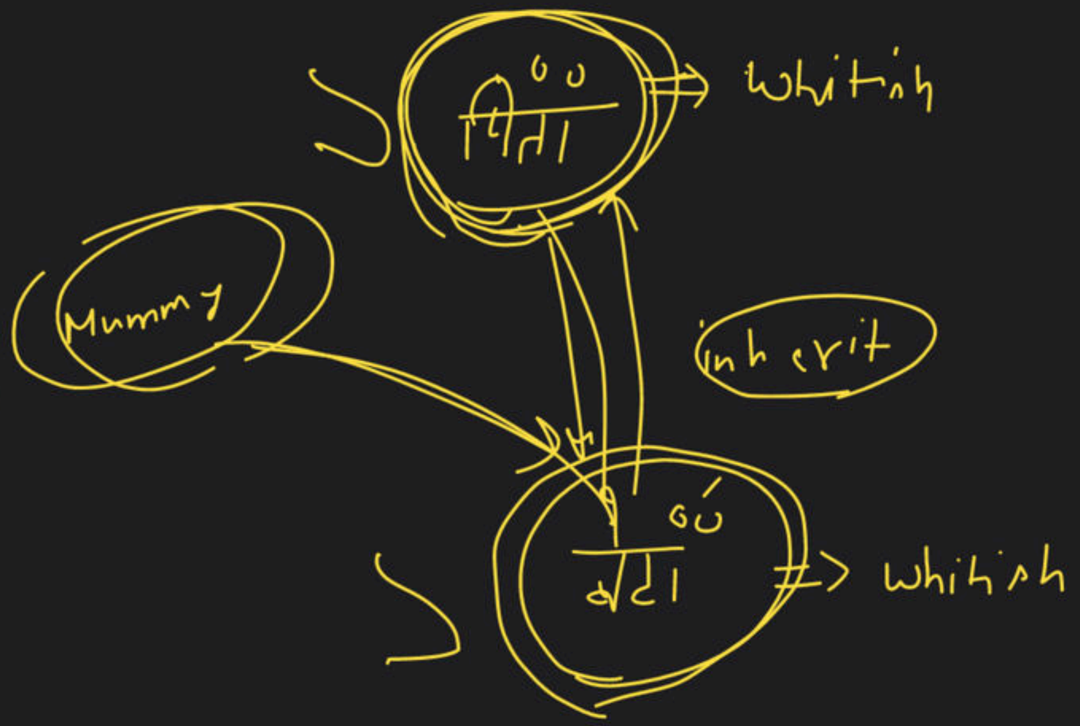


Perfect Encapsulation →

Private

Inheritance

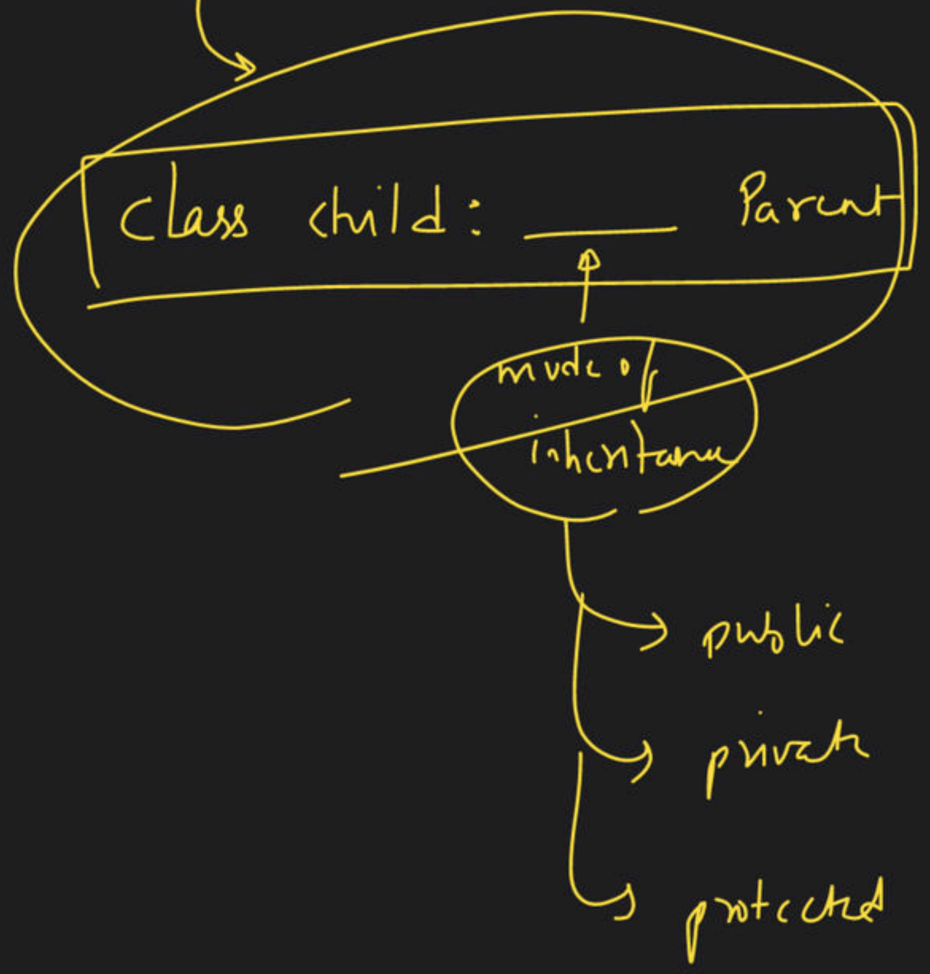


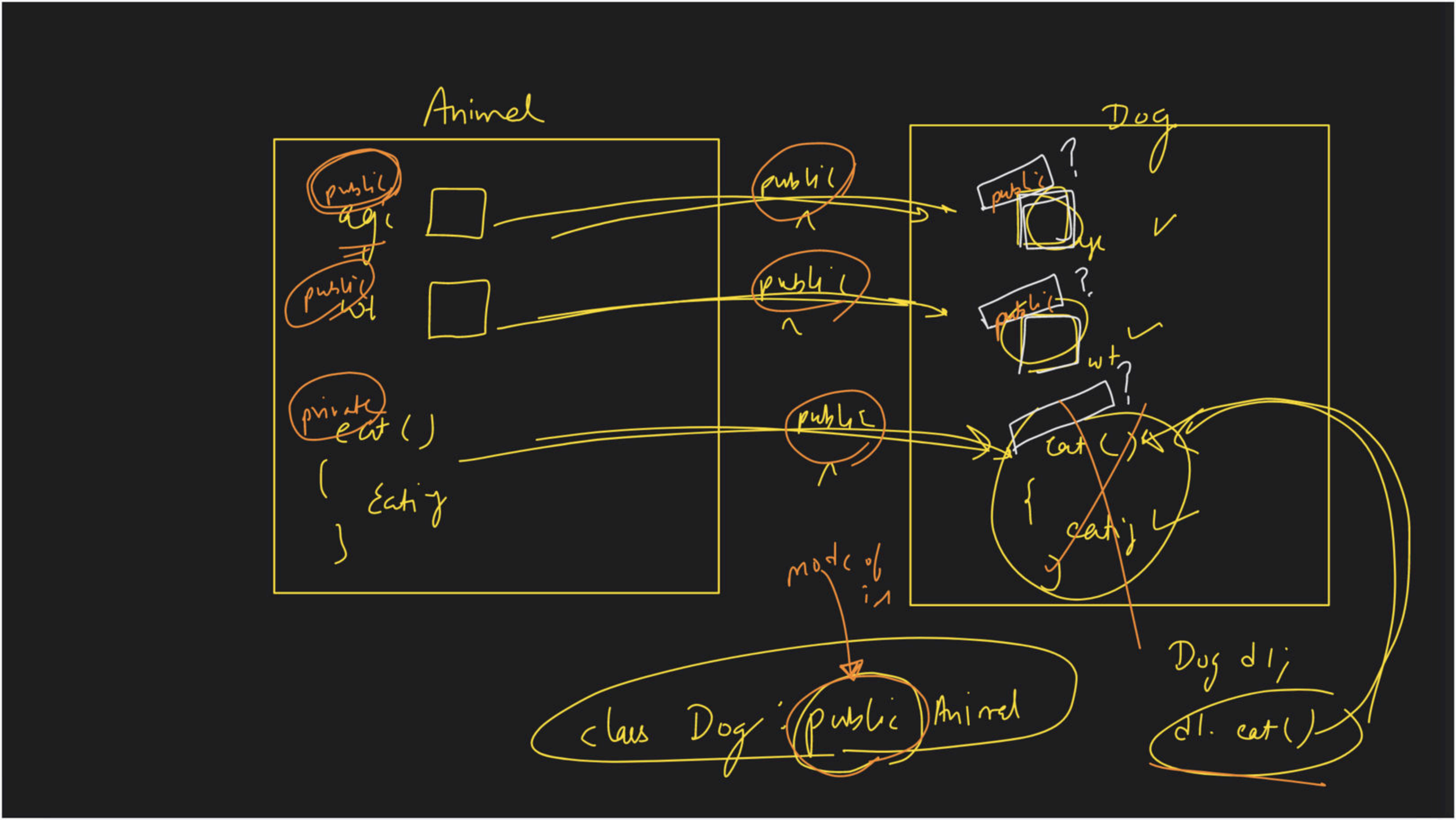


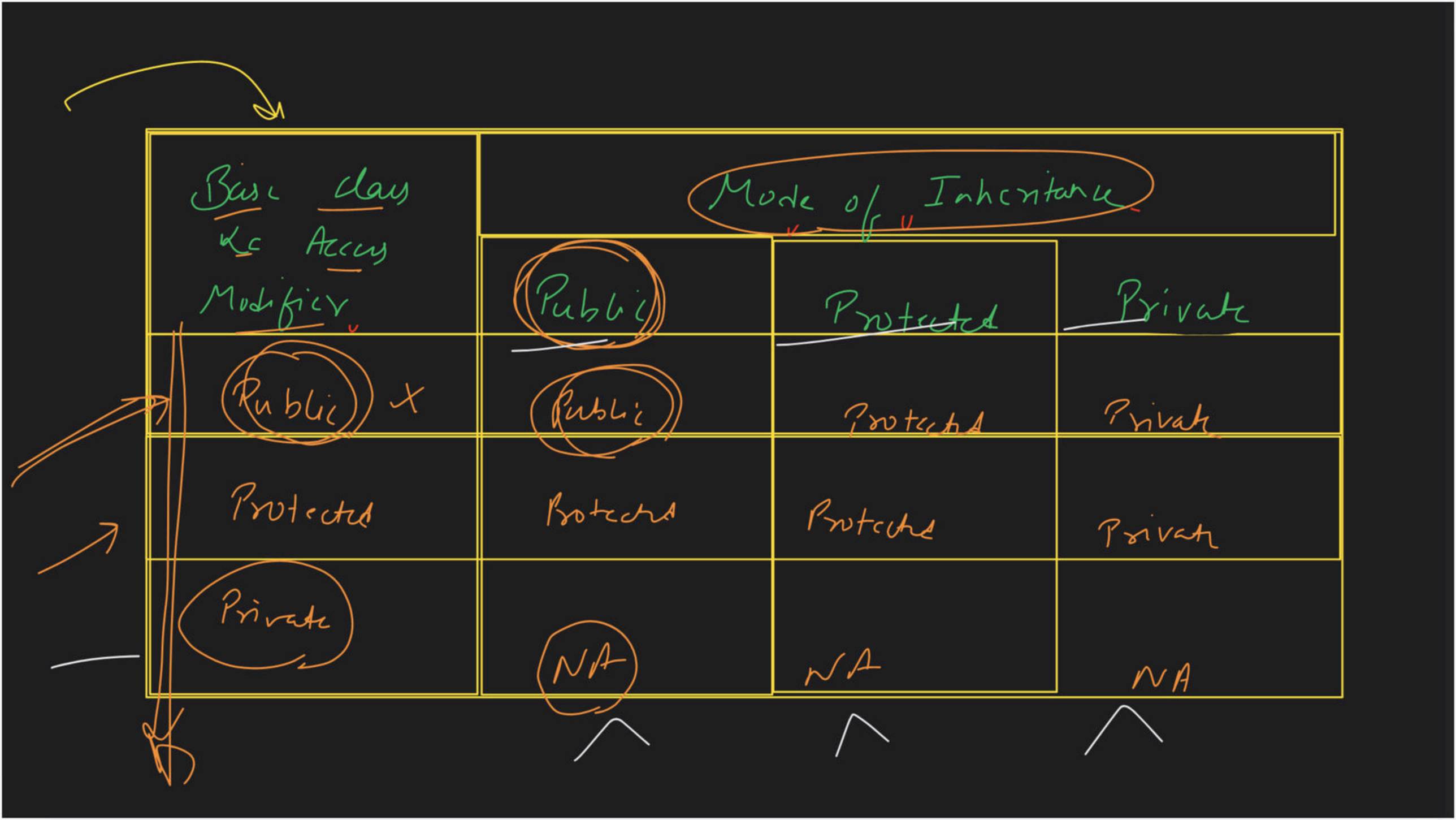
Parent Class

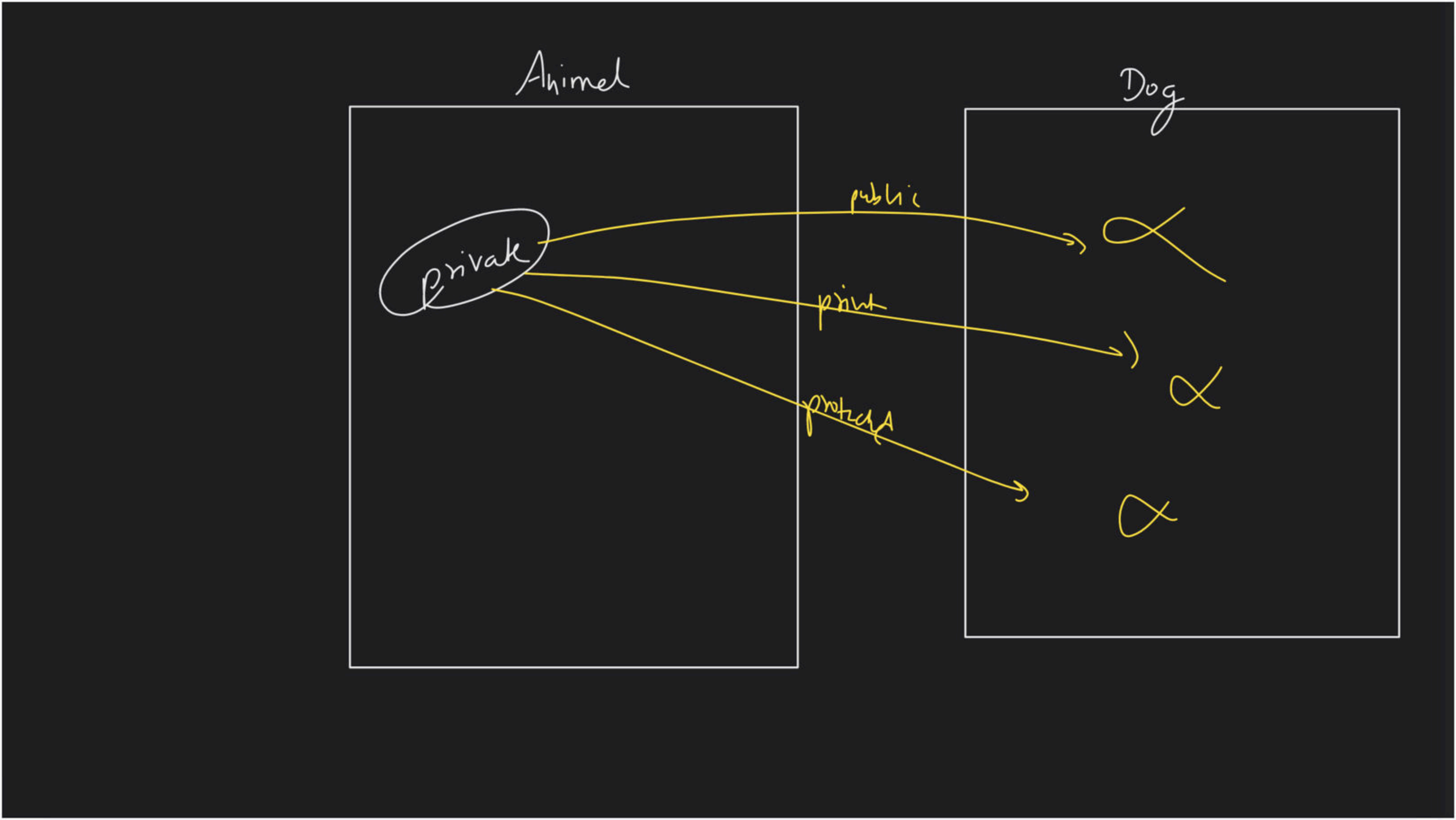
Child Class

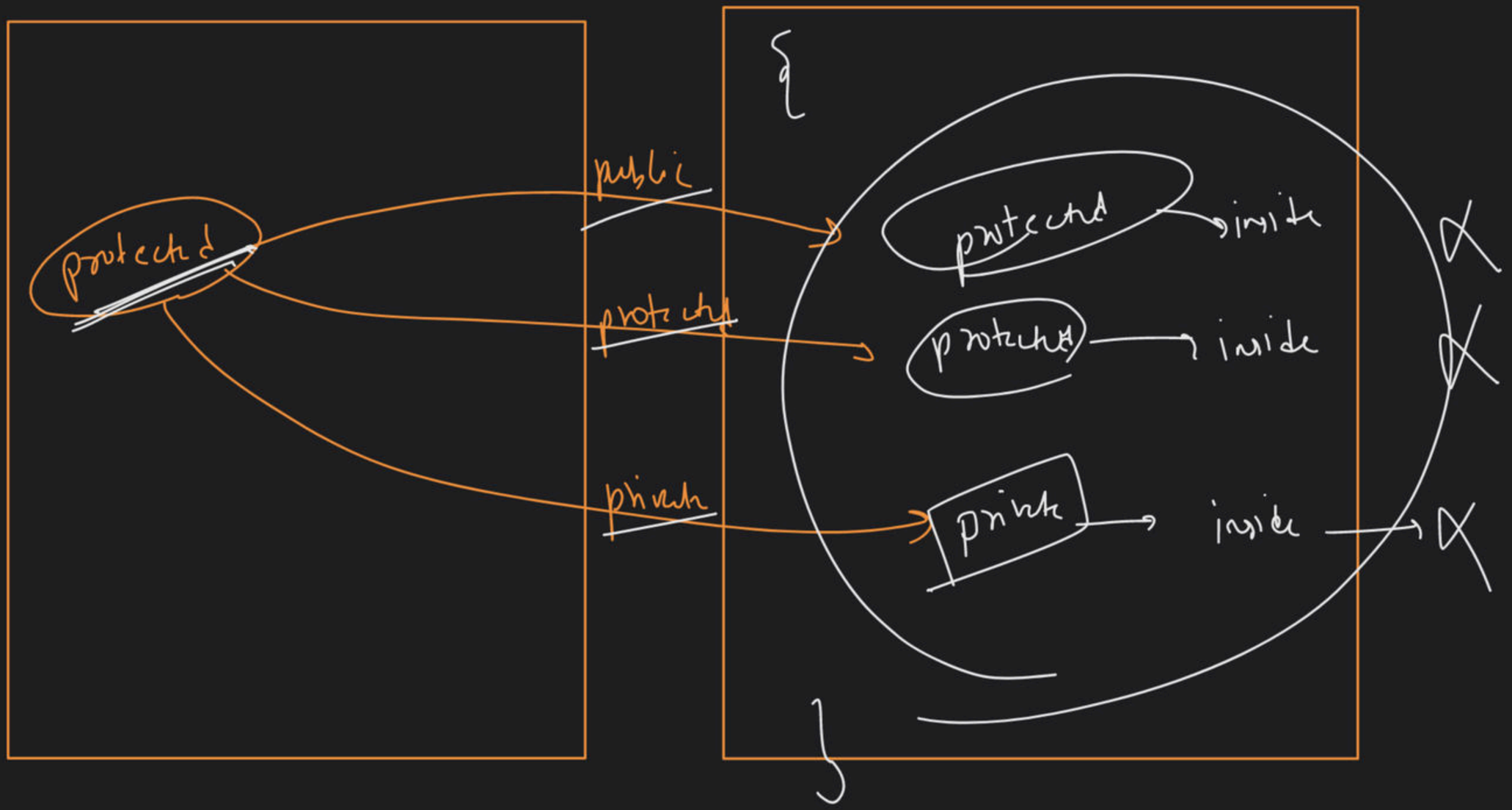
Coding

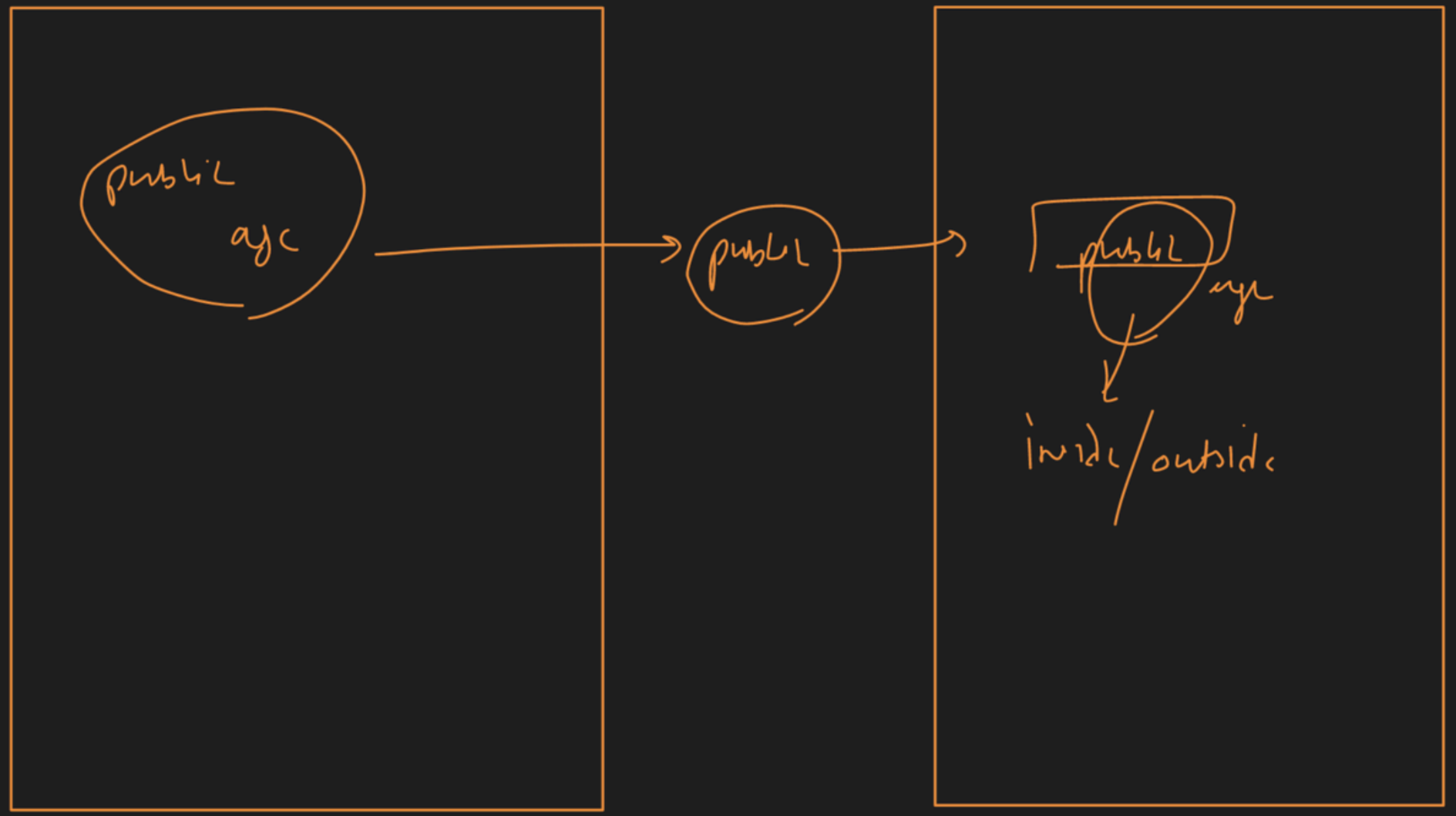



Animal
public
dog()
public
wt
private
eat()
{
Eating
}
public
public
public
Dog
public
?
wt
?
eat()
{
eating
}
mode of
is
class Dog : public Animal
Dog d1;
d1. eat()

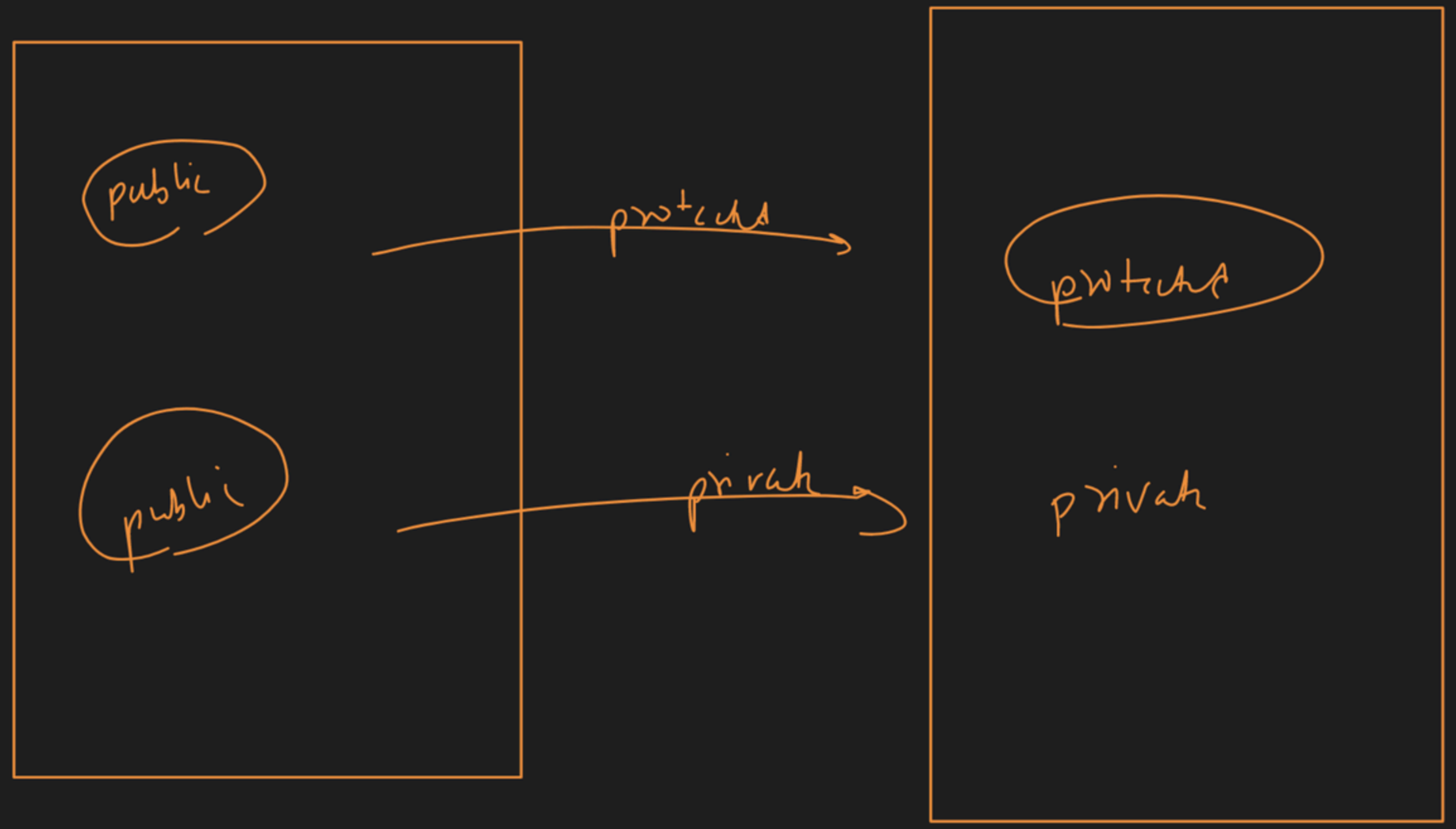

Base class Acc Modifier
Mode of Inheritance
Public
Protected
Private
Public
Public
Protected
Private
Protected
Protected
Protected
Private
Private
NA
NA
NA

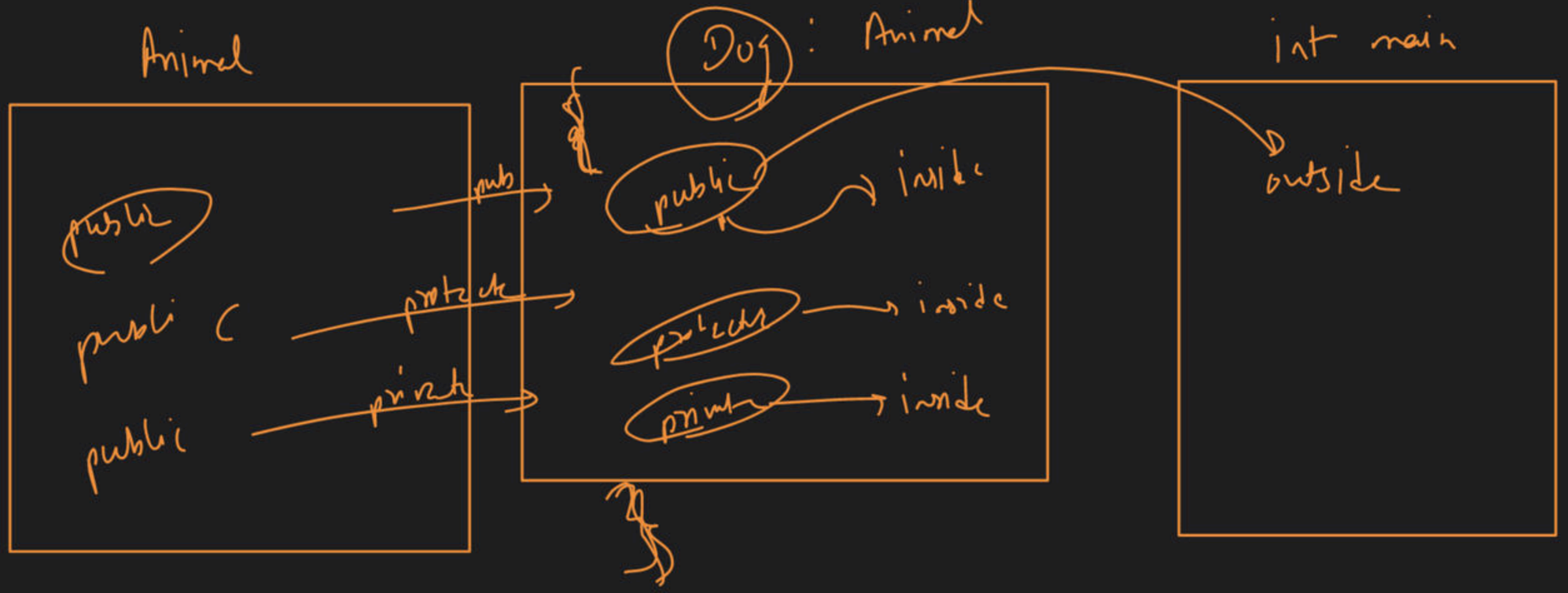

Animal
Dog
private
public
print
protected

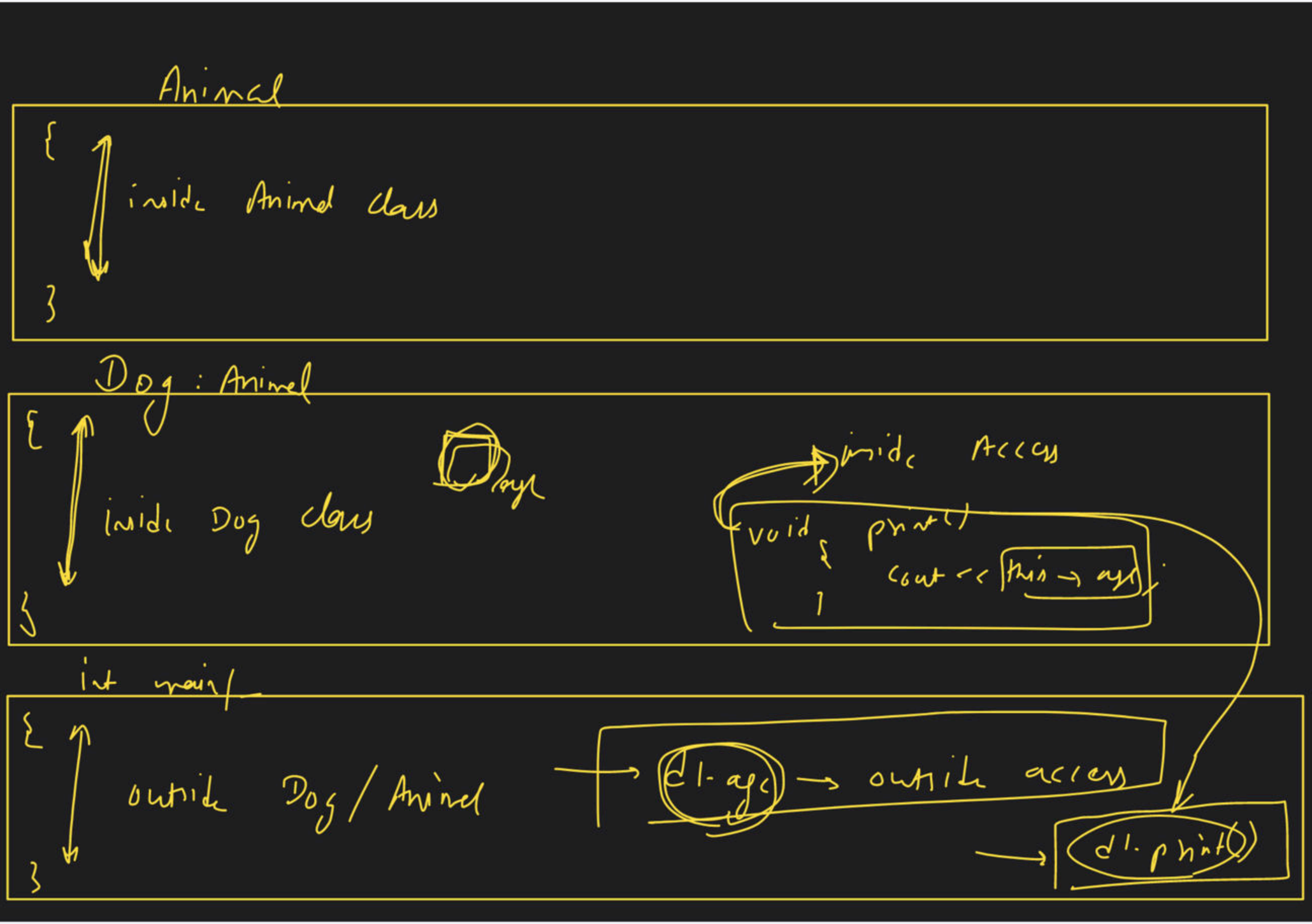

protected
public
protected
private
{
protected
inside
protected
inside
private
inside
}

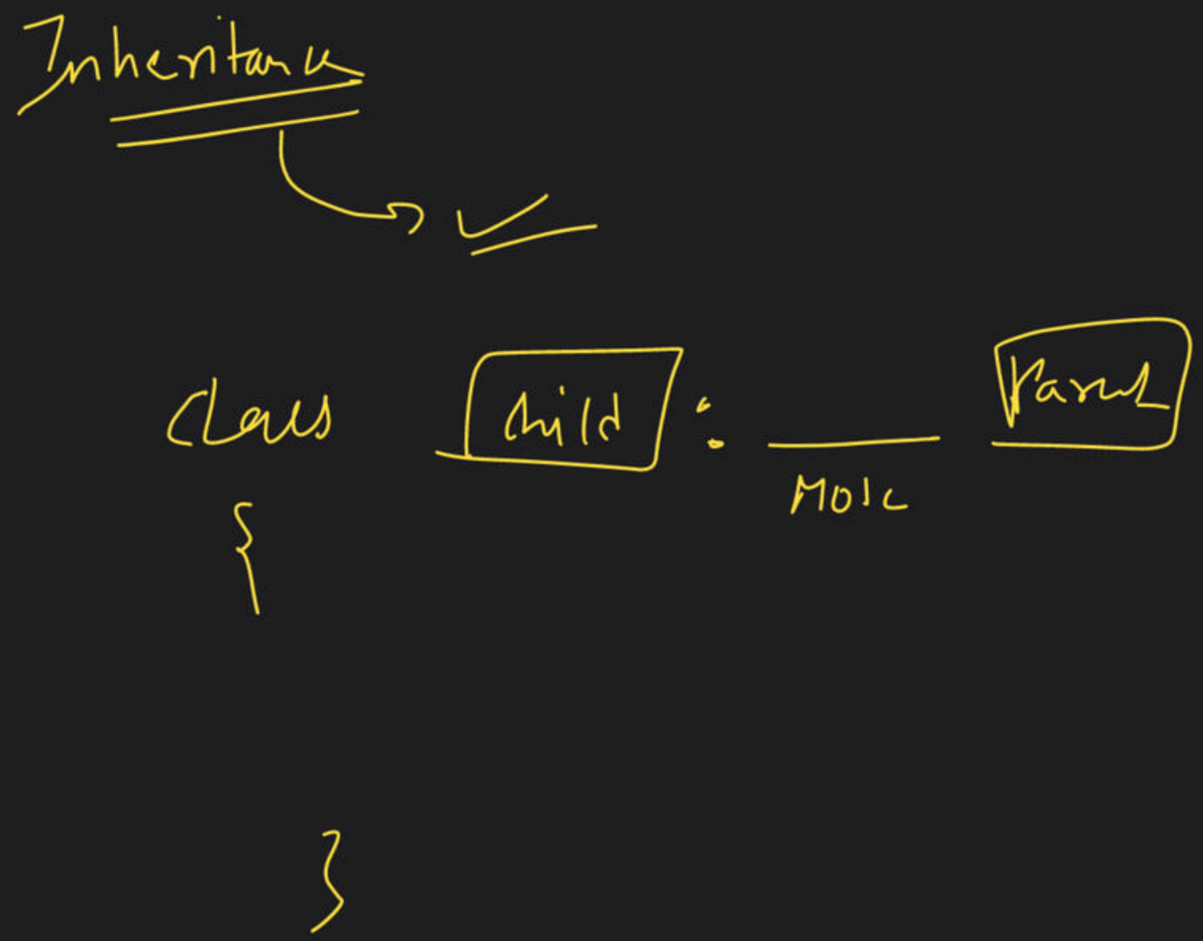


Mode of Interaction

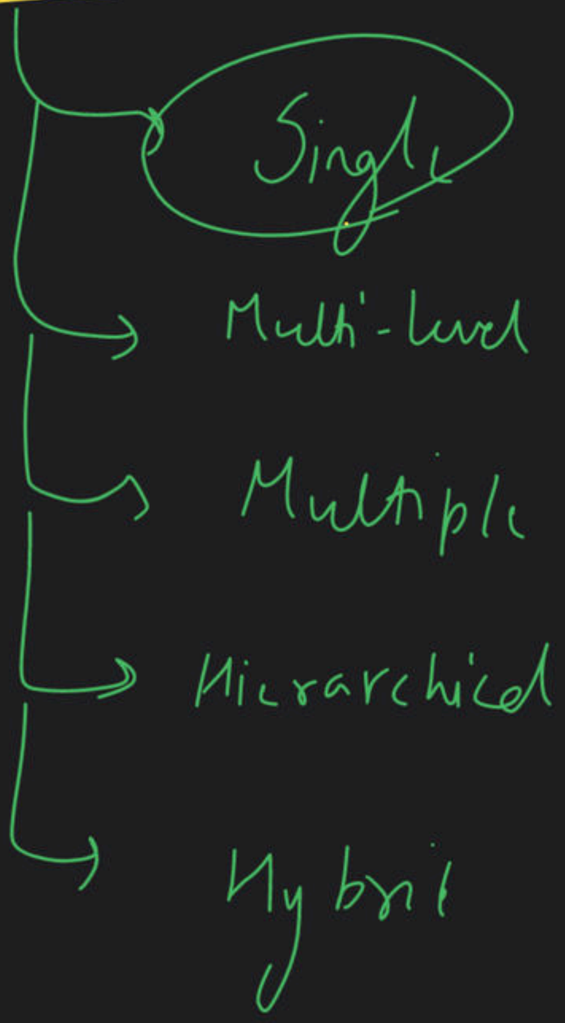

public
protected
public
private
protected
private

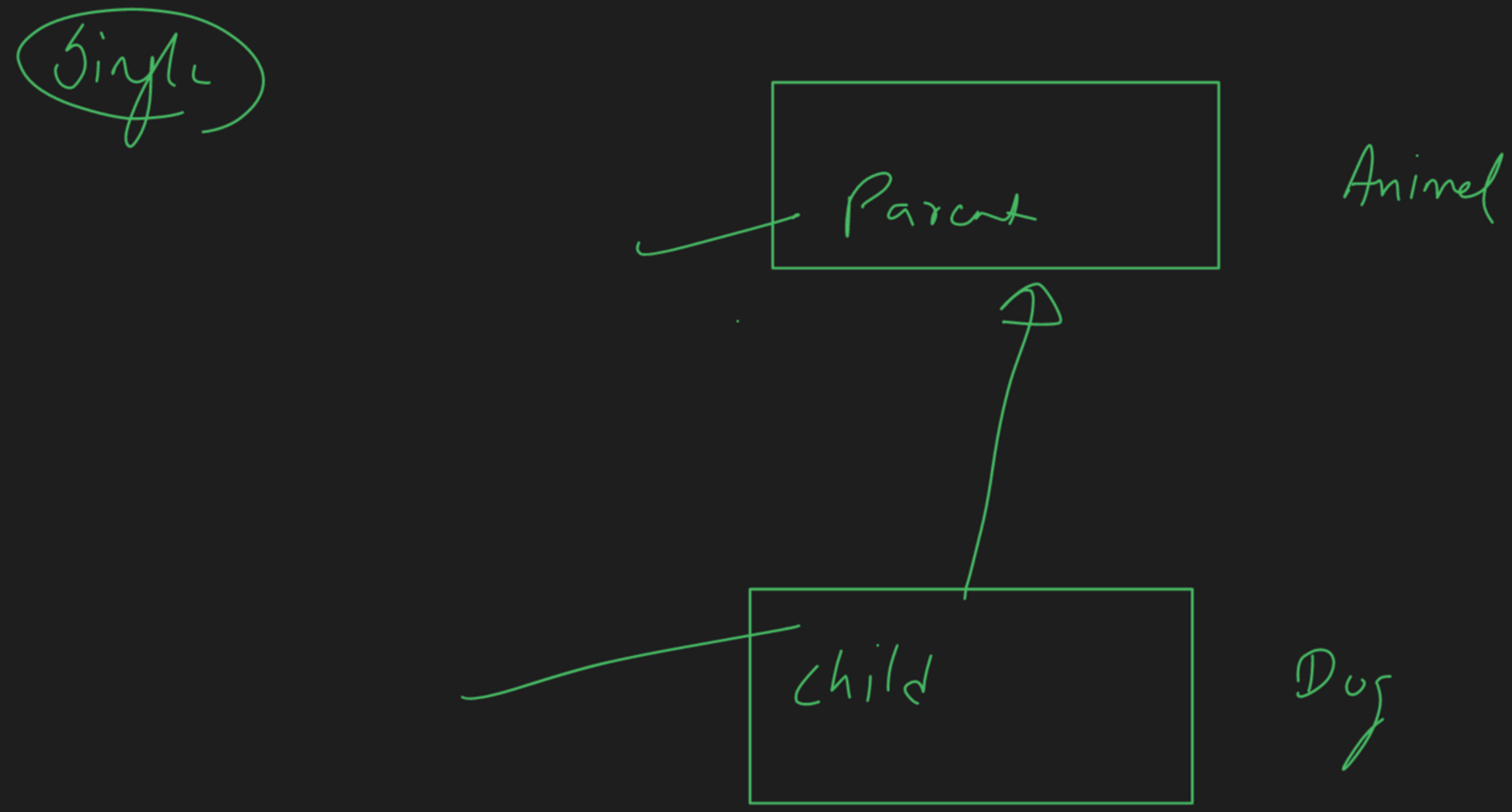

Animal
Dog : Animal
int main
public
public
protected
private
public
protected
private
inside
inside
inside
outside

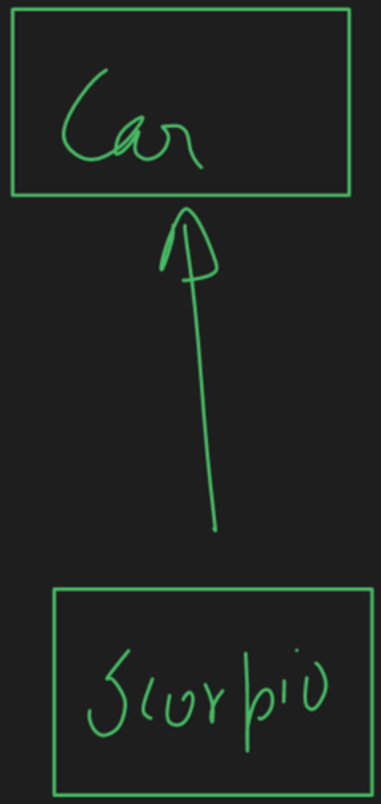

Animal
{
inside Animal class
}
Dog : Animal
{
inside Dog class
}
age
inside Access
void print()
{
cout << this -> age;
}
int main()
{
outside Dog / Animal
d1. age
outside access
d1. print()

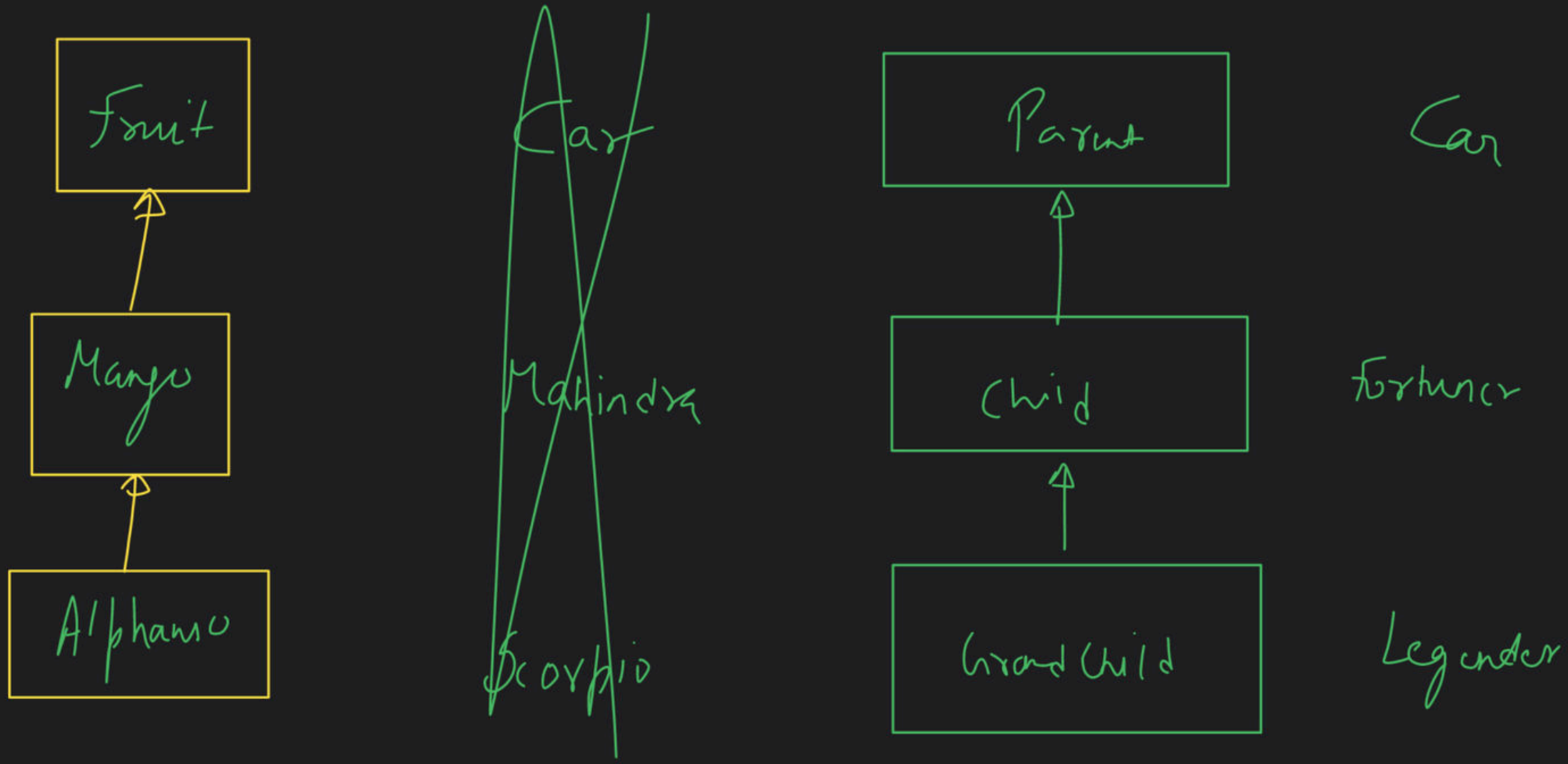

Inheritance
class
Child
:
Mode
Parent
{
}

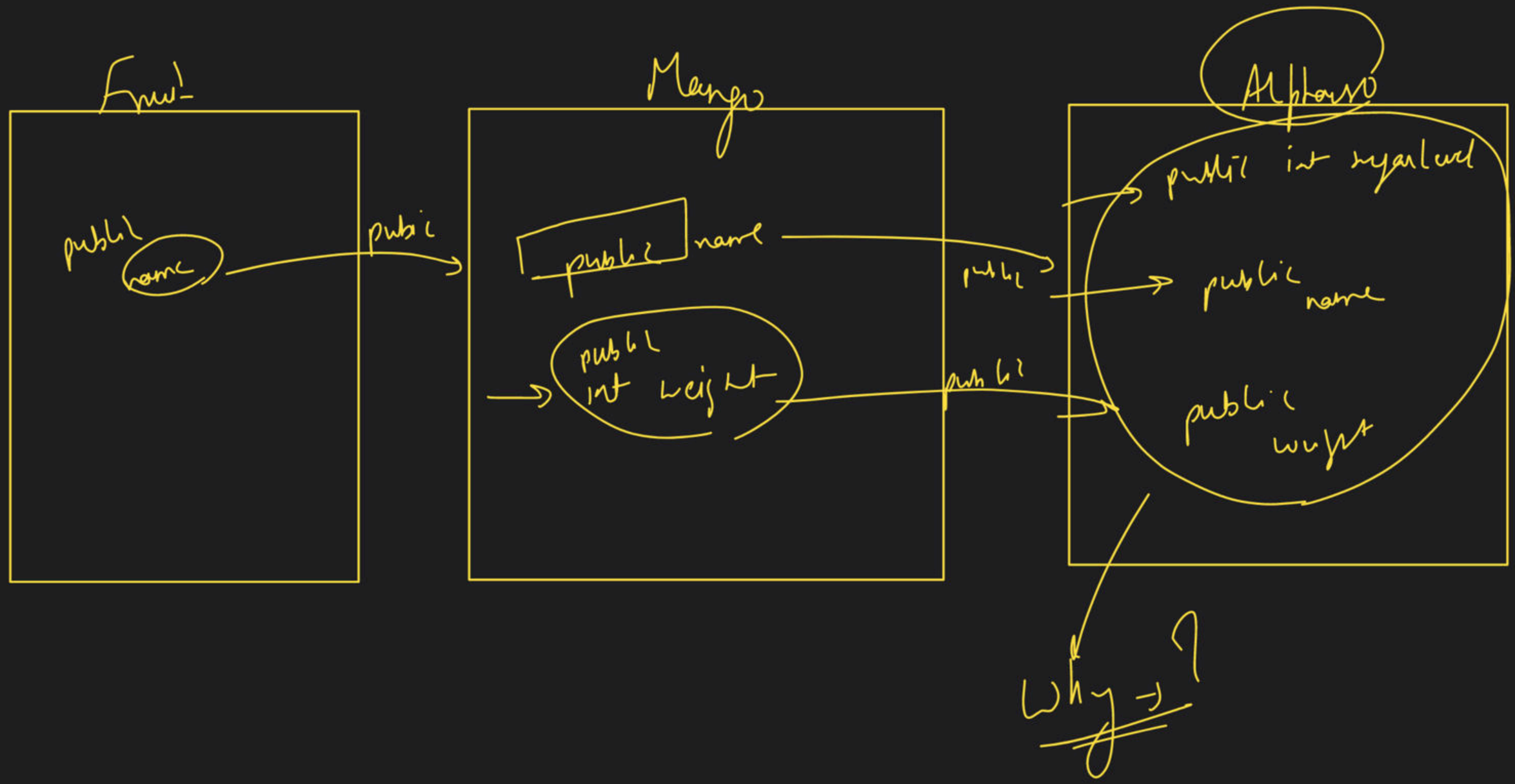
Type of Inheritance



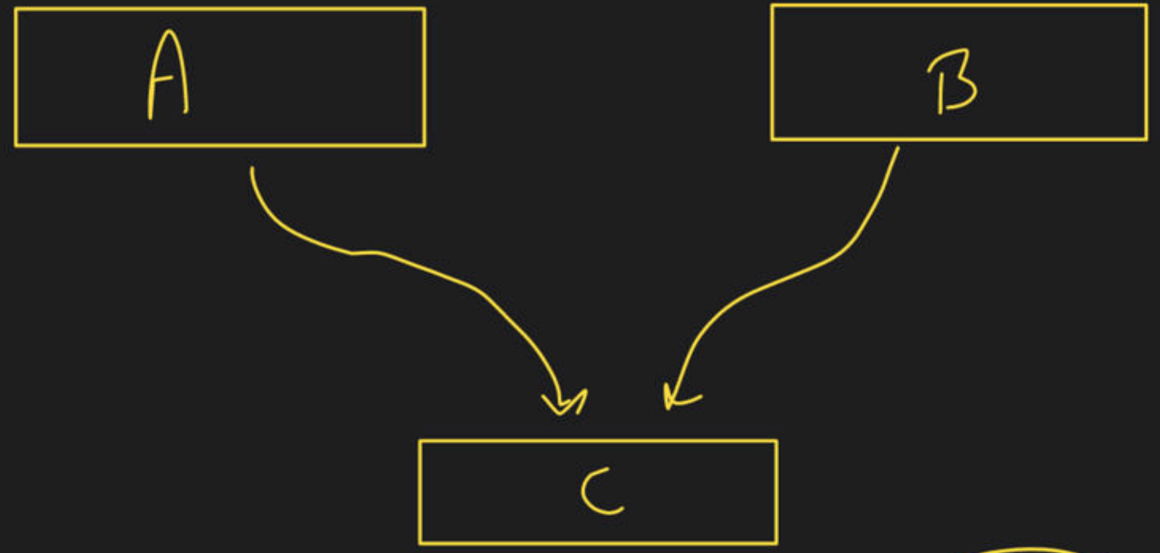

Single
Parent
Animal
child
Dog

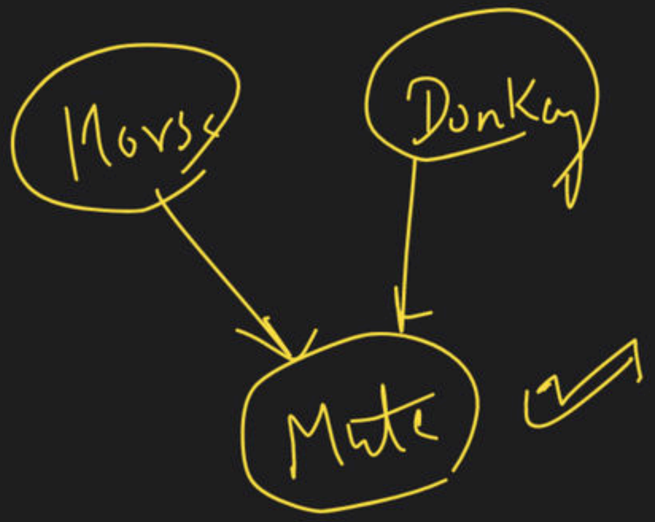

Car
Scorpio

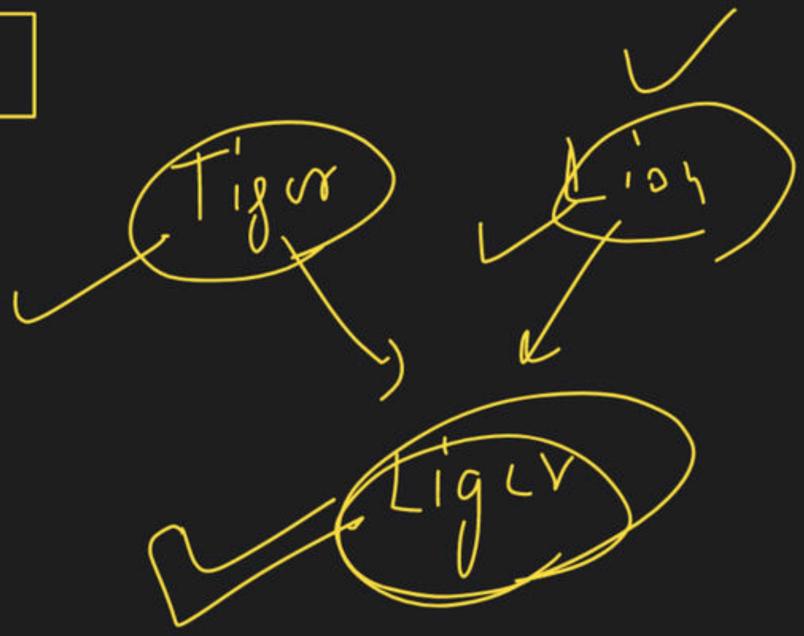

Fruit
Mango
Alphanso
Car
Mahindra
Scorpio
Parent
Child
Grand Child
Car
Fortuner
Legender

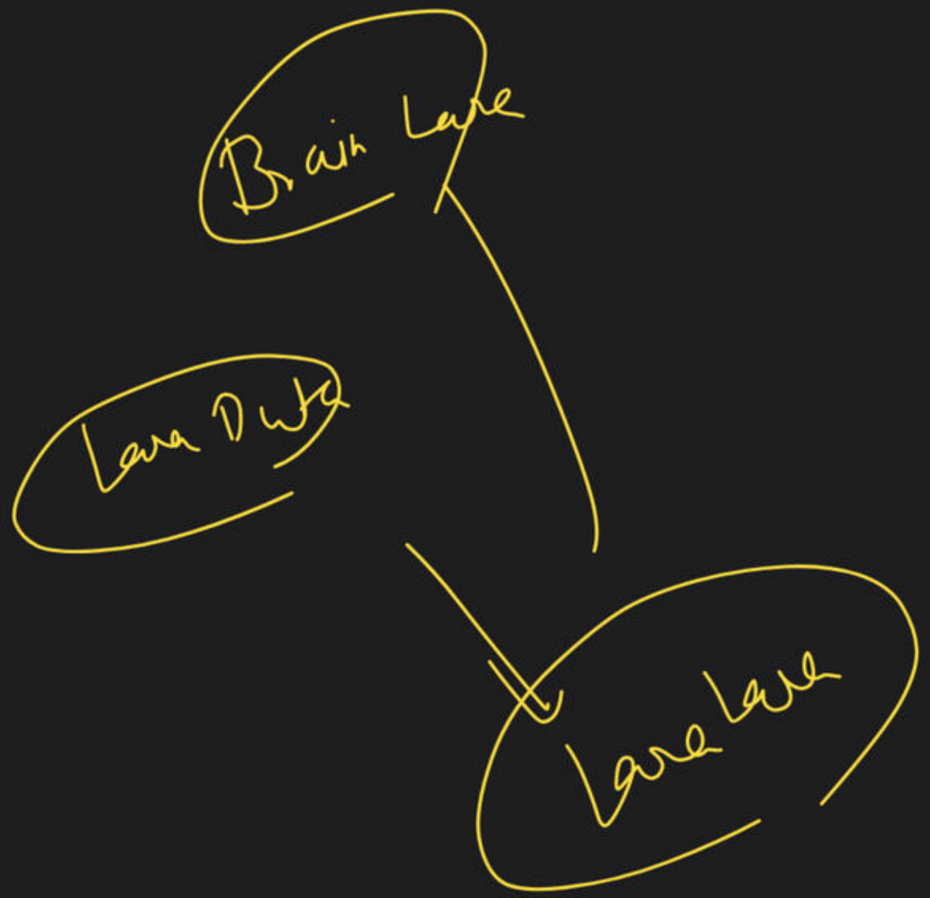

Fruit
public
name
public
Mango
public
name
public
int weight
public
public int myvalue
public
name
public
weight
Why -1 ?

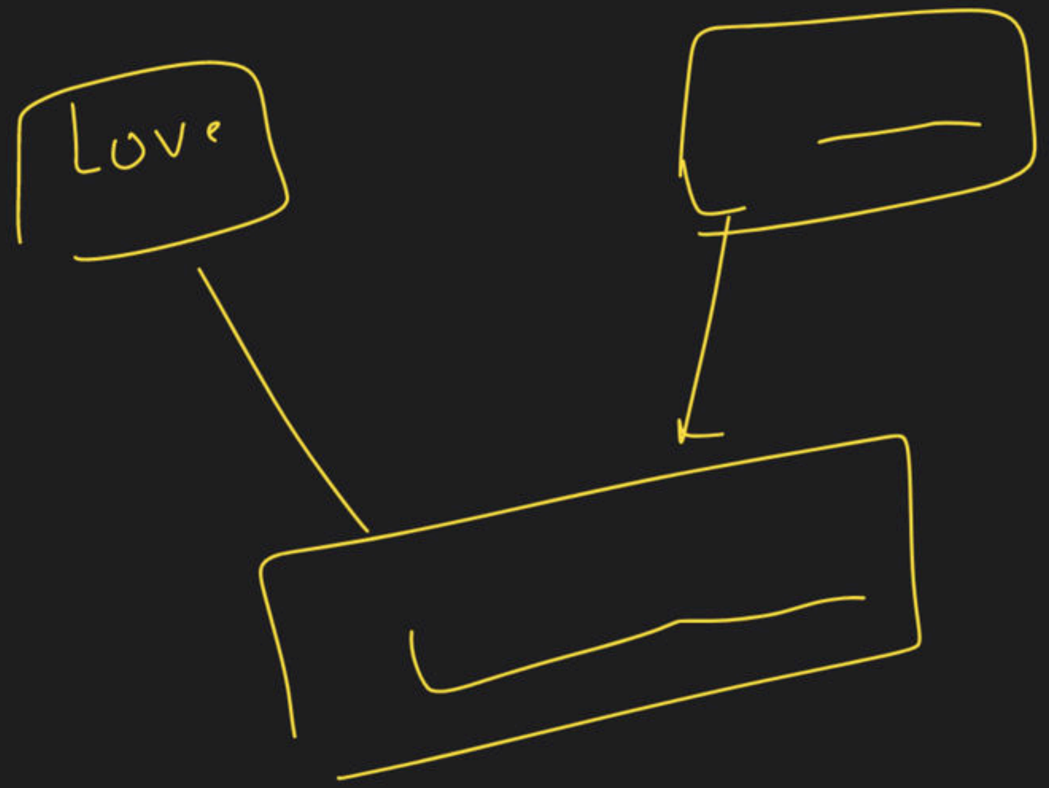
Multiple

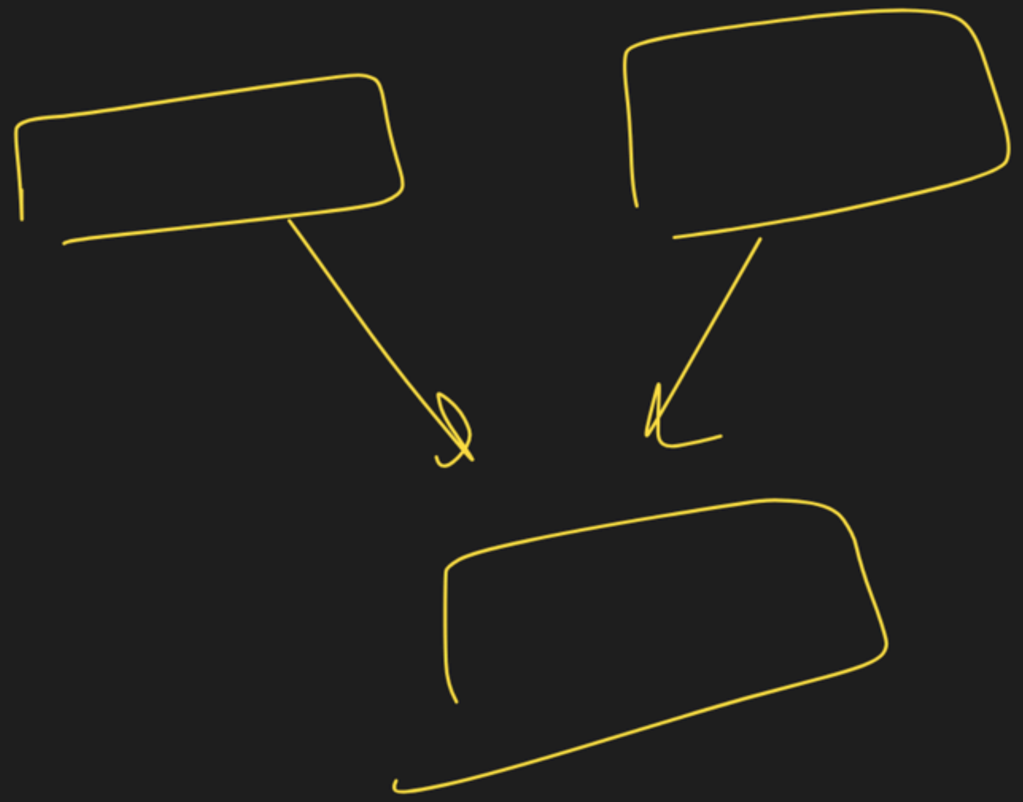


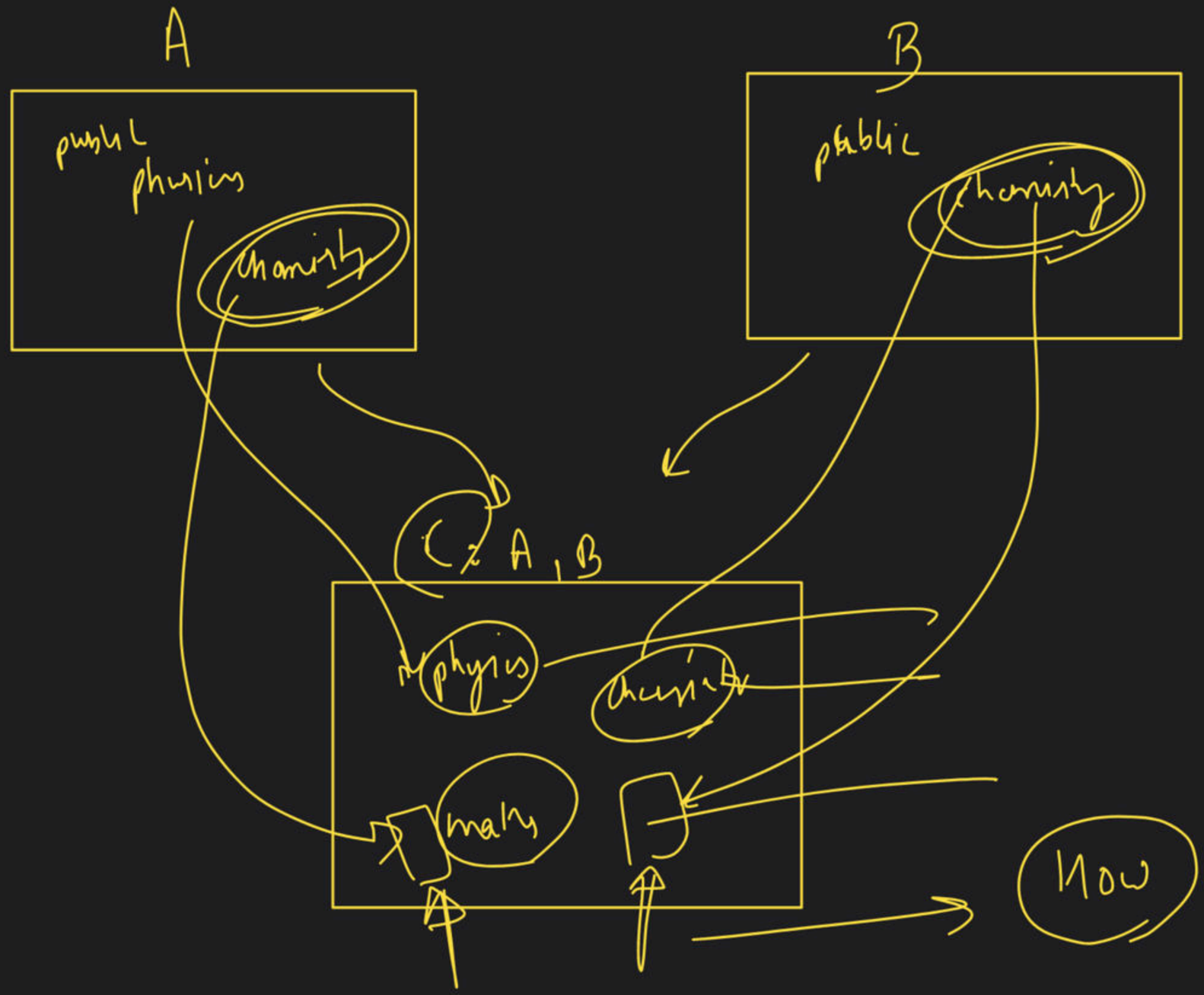


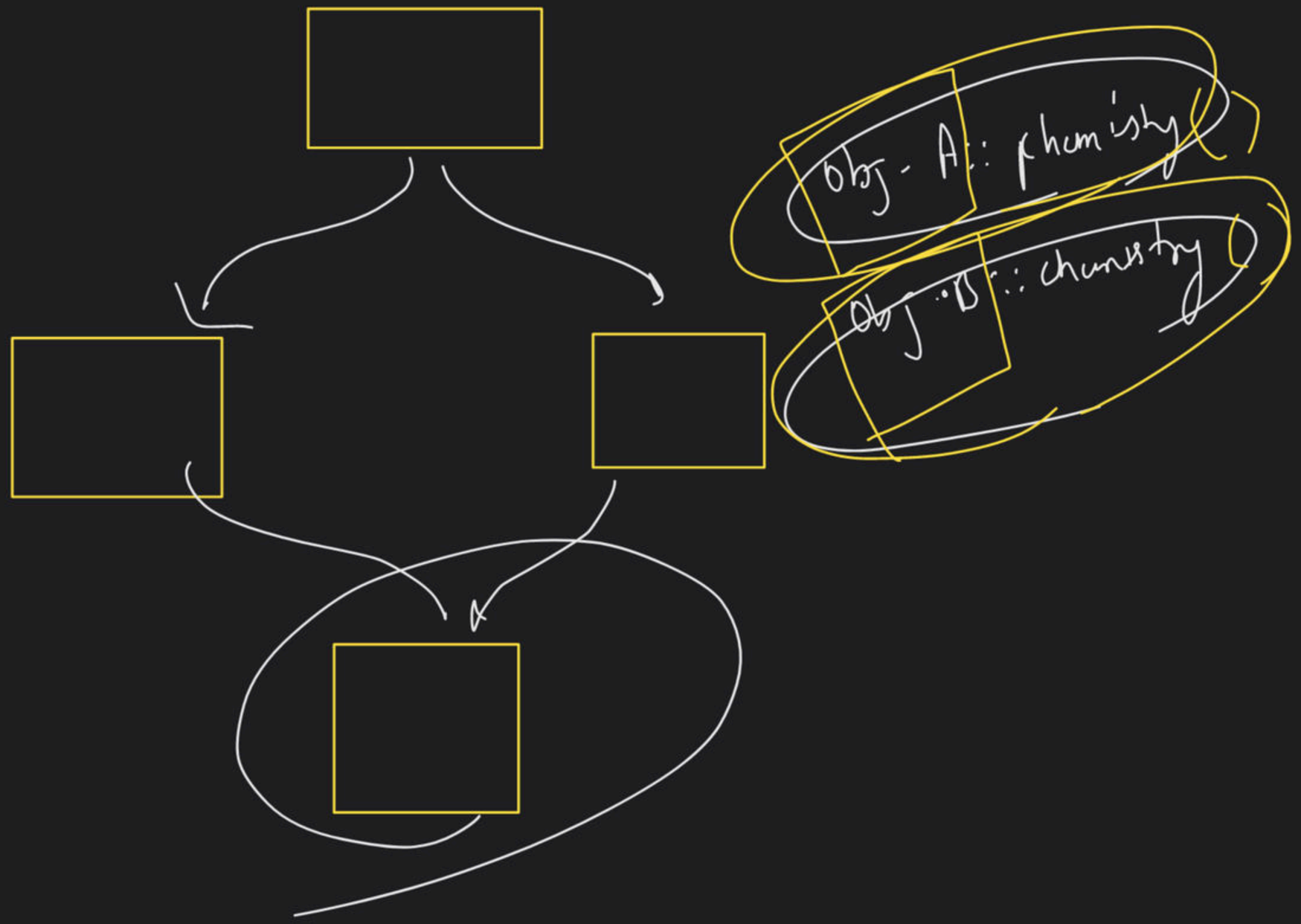



Brain Lake
Lava Duke
Lava Lake

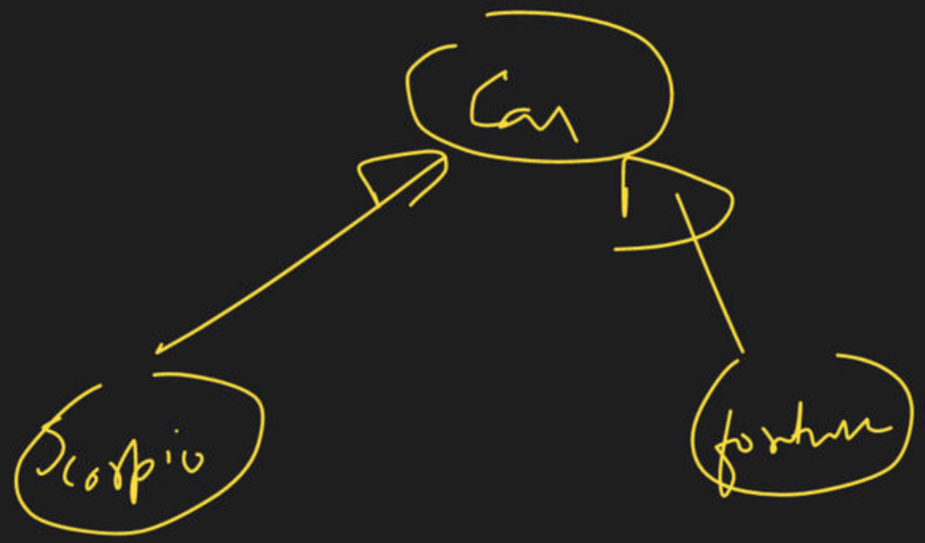

Love




A
public
physics
chemistry
B
public
chemistry
C : A , B
physics
chemistry
maths
How

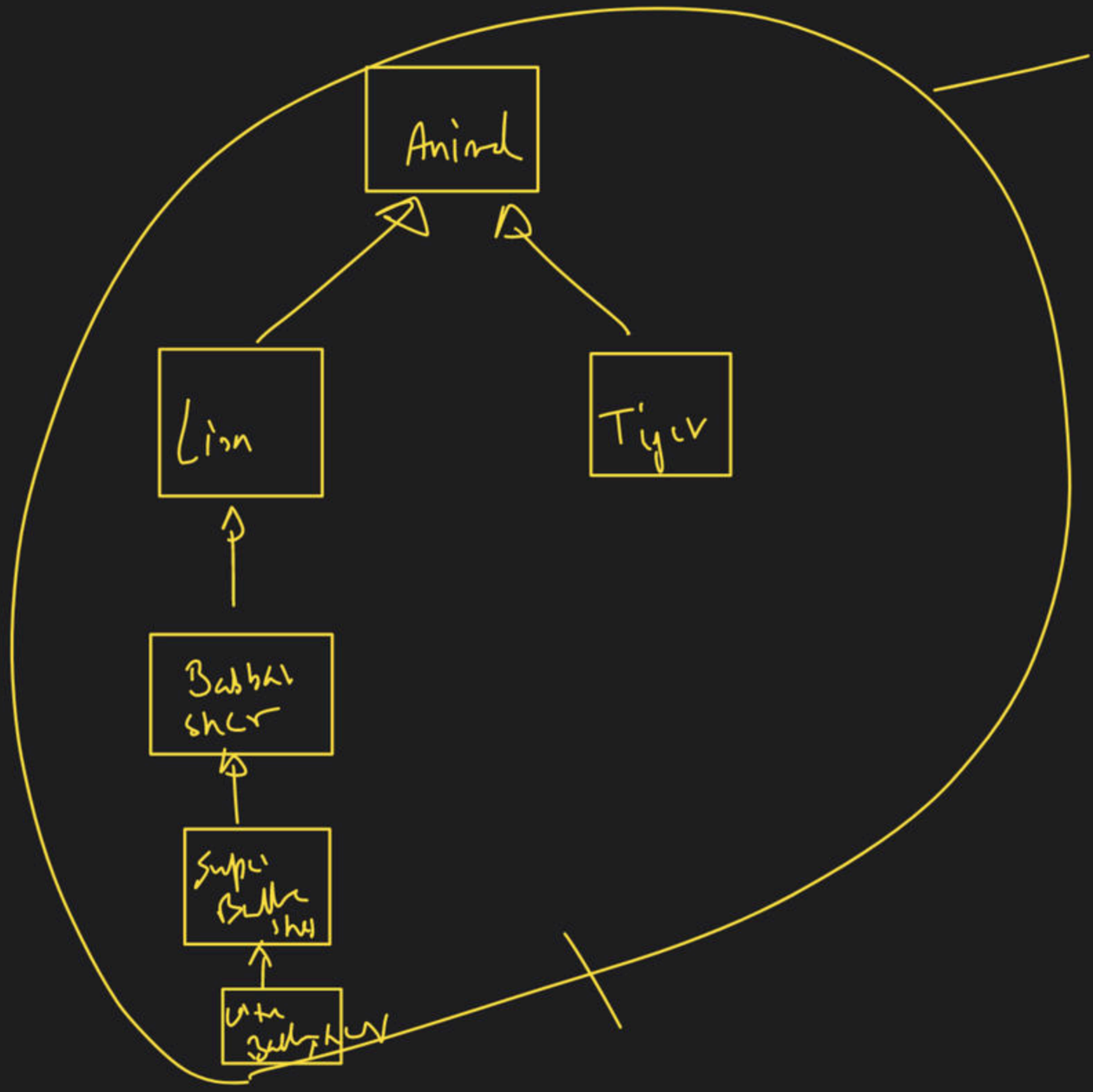

obj - A :: chemistry
obj - B :: chemistry

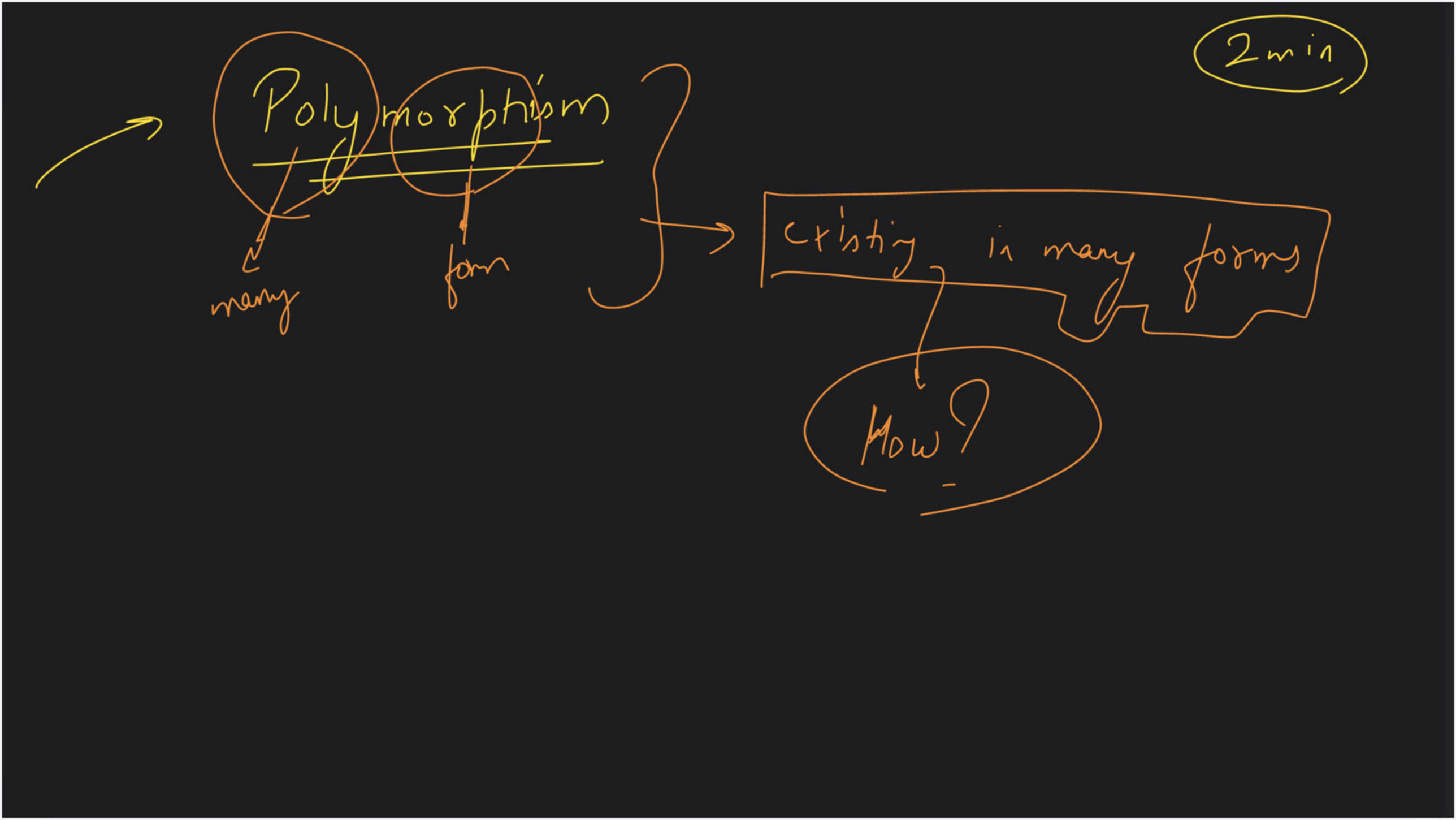
→ Hierarchical

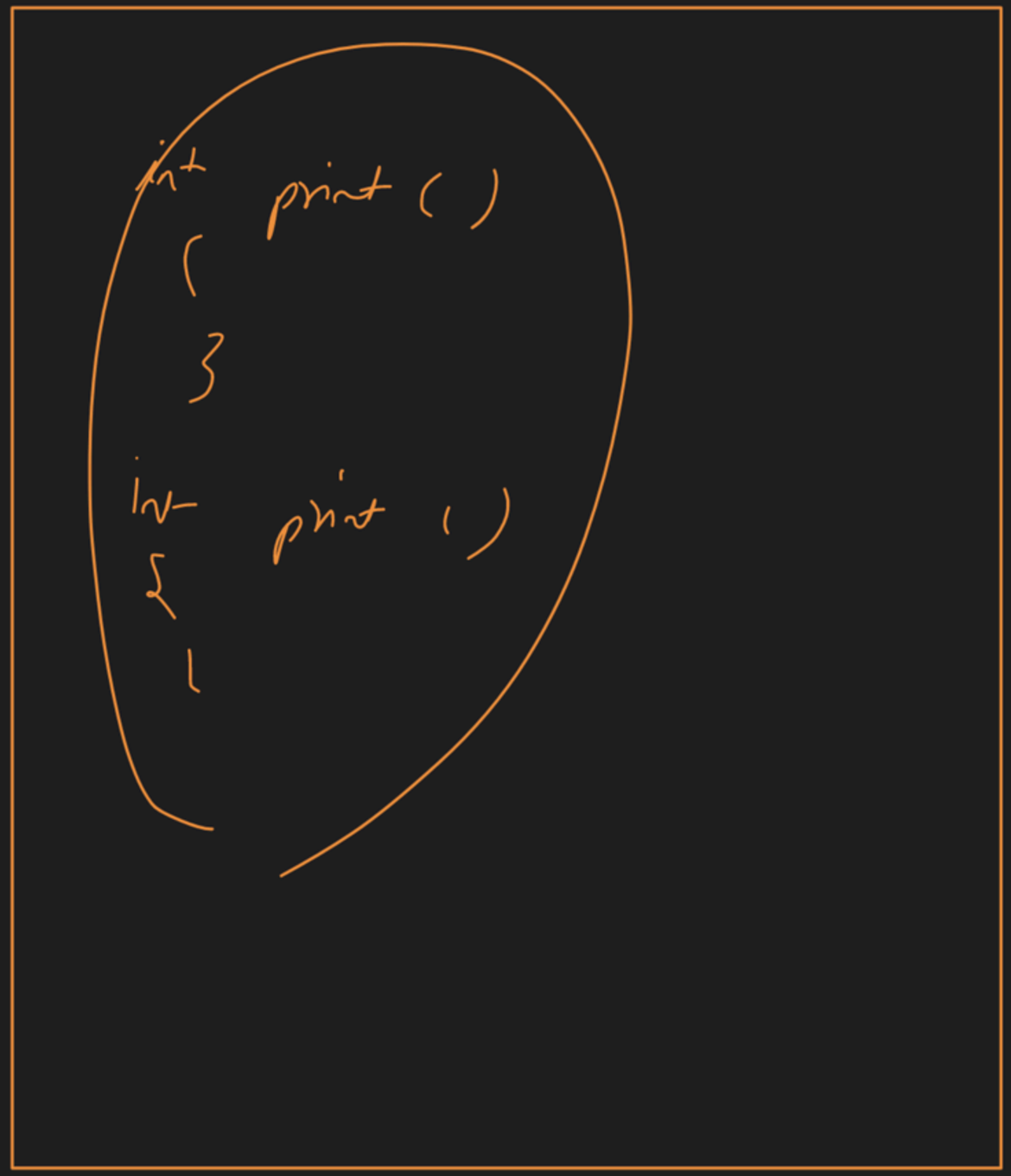


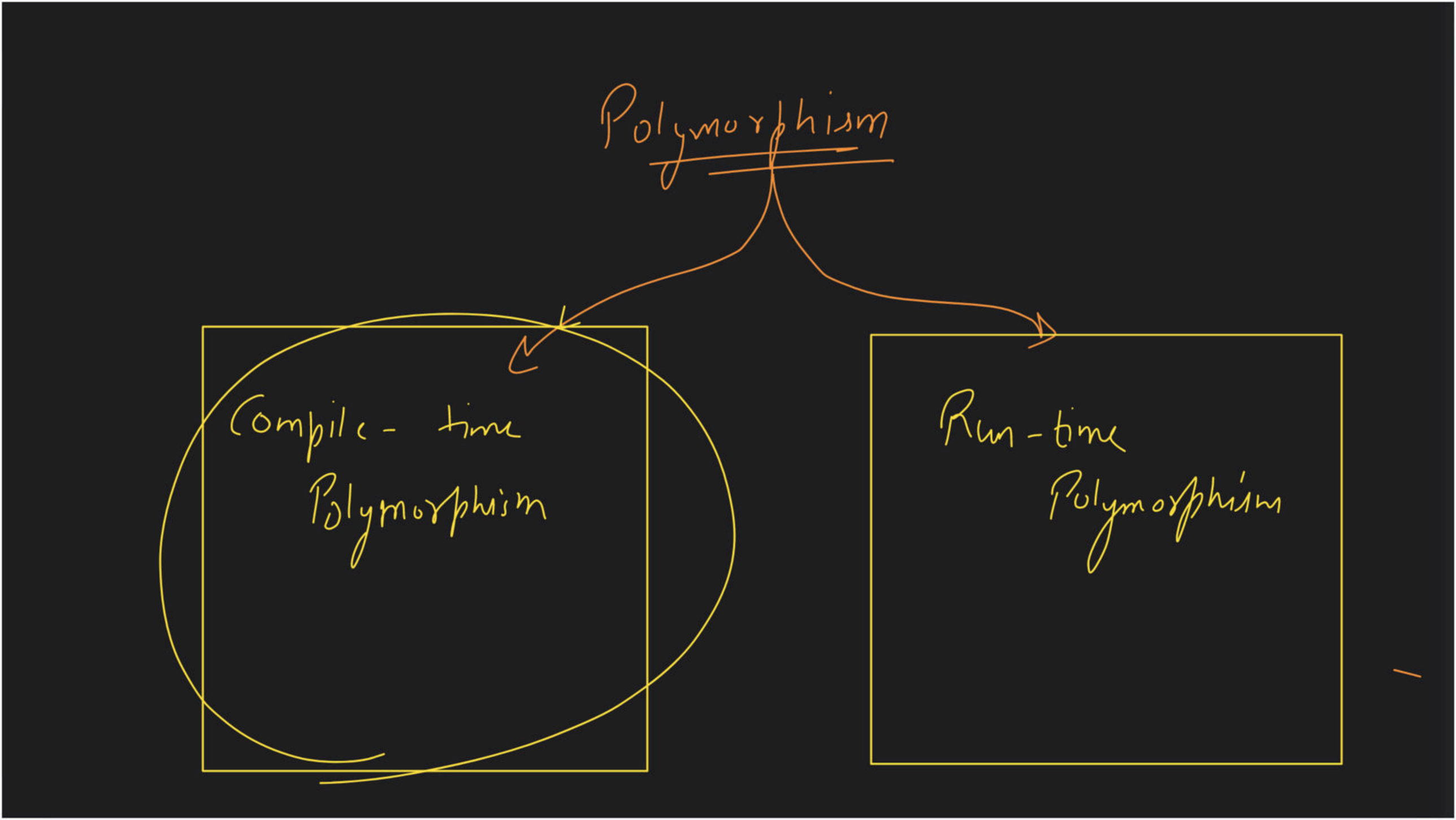
Hybrid

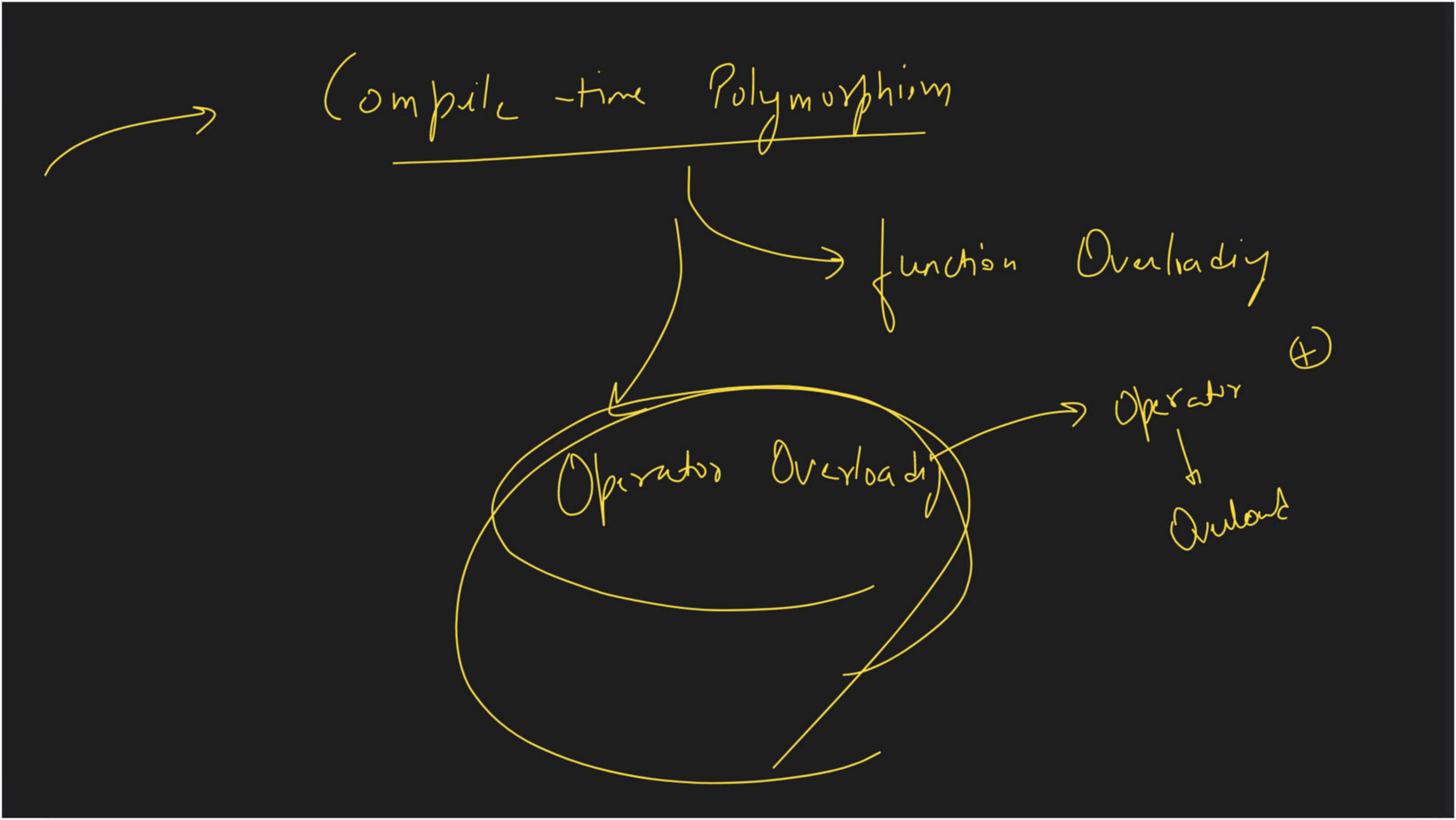
Logical

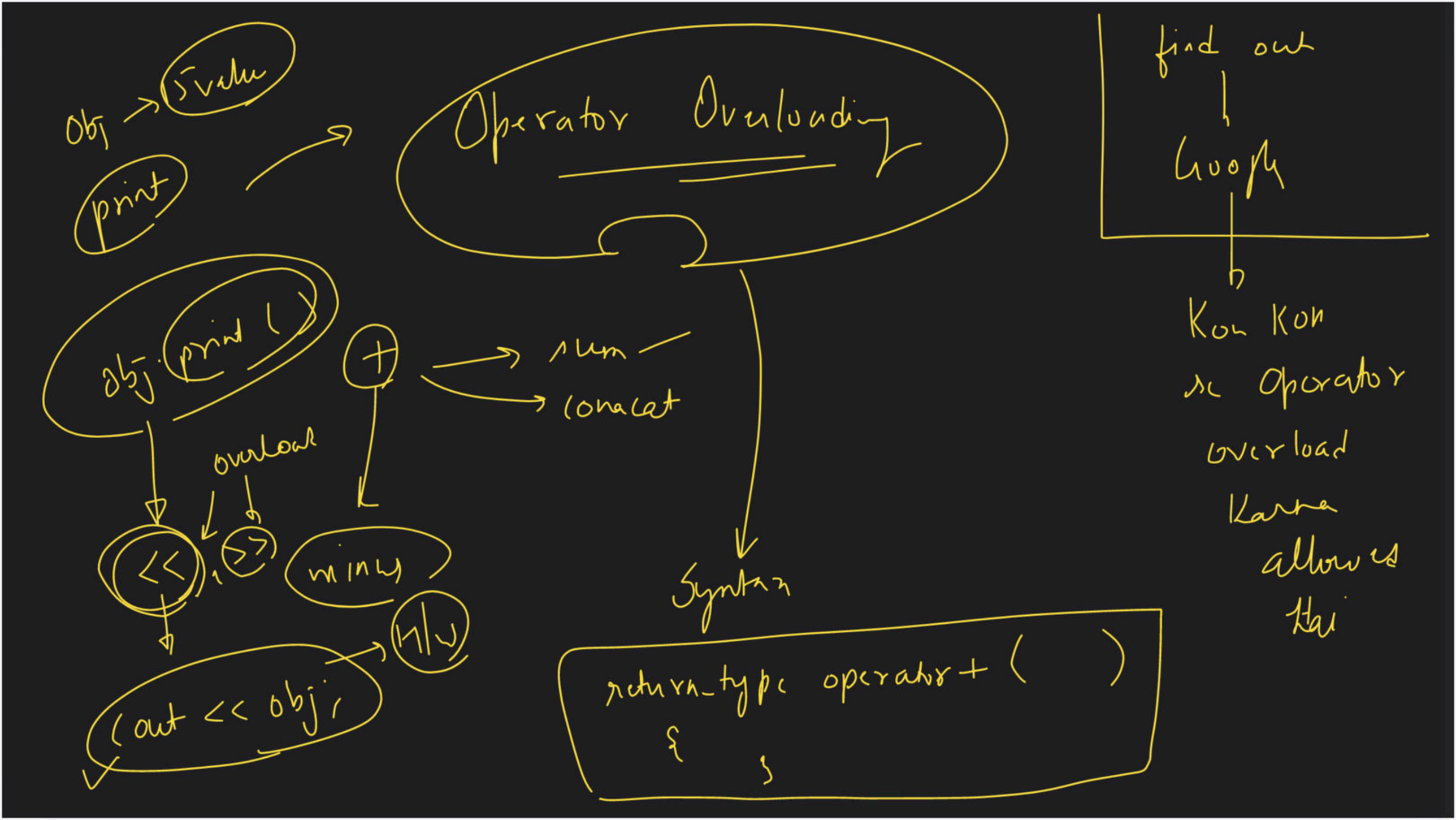


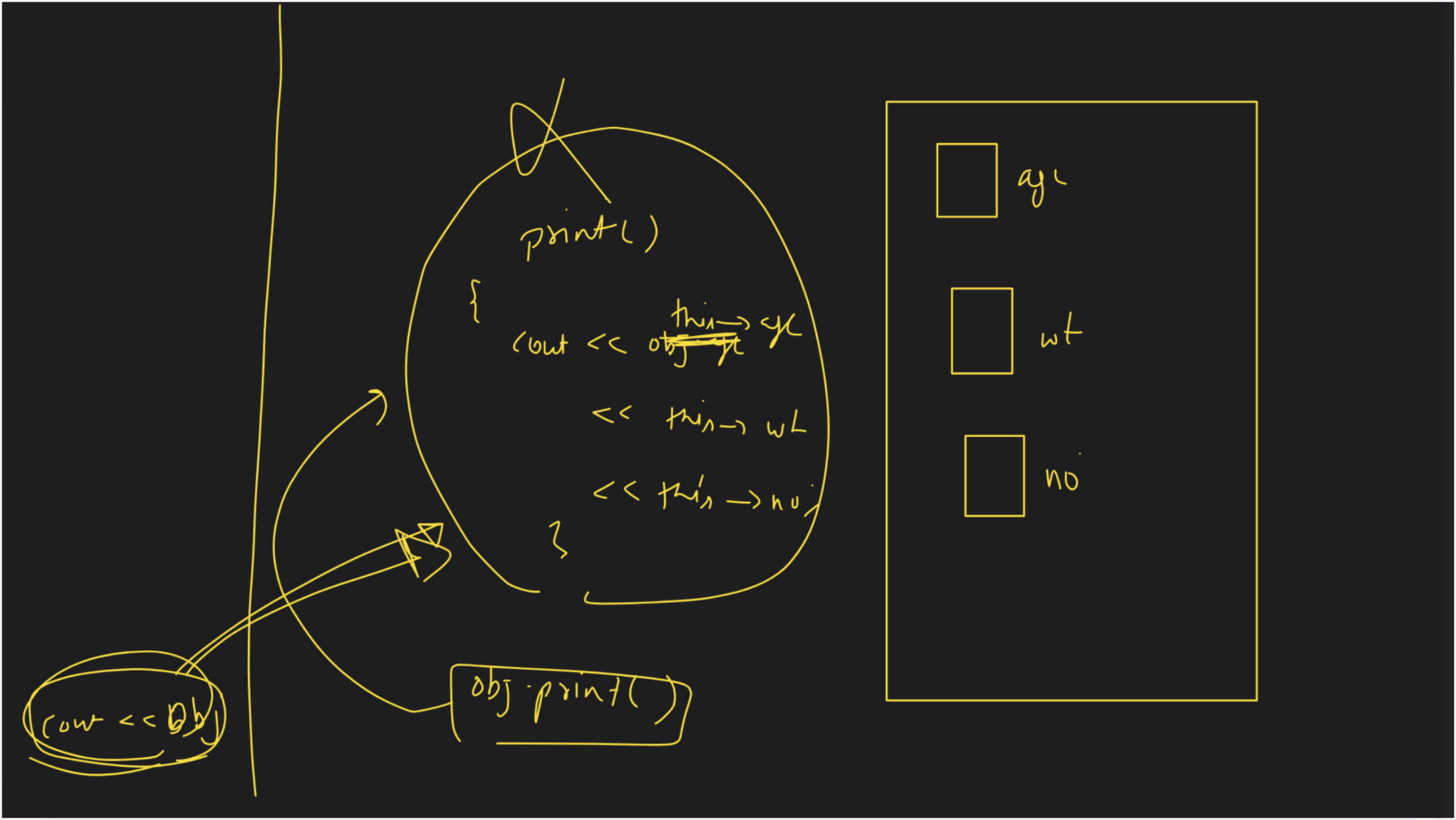

2 min
Polymorphism
many
form
existing in many forms
How?

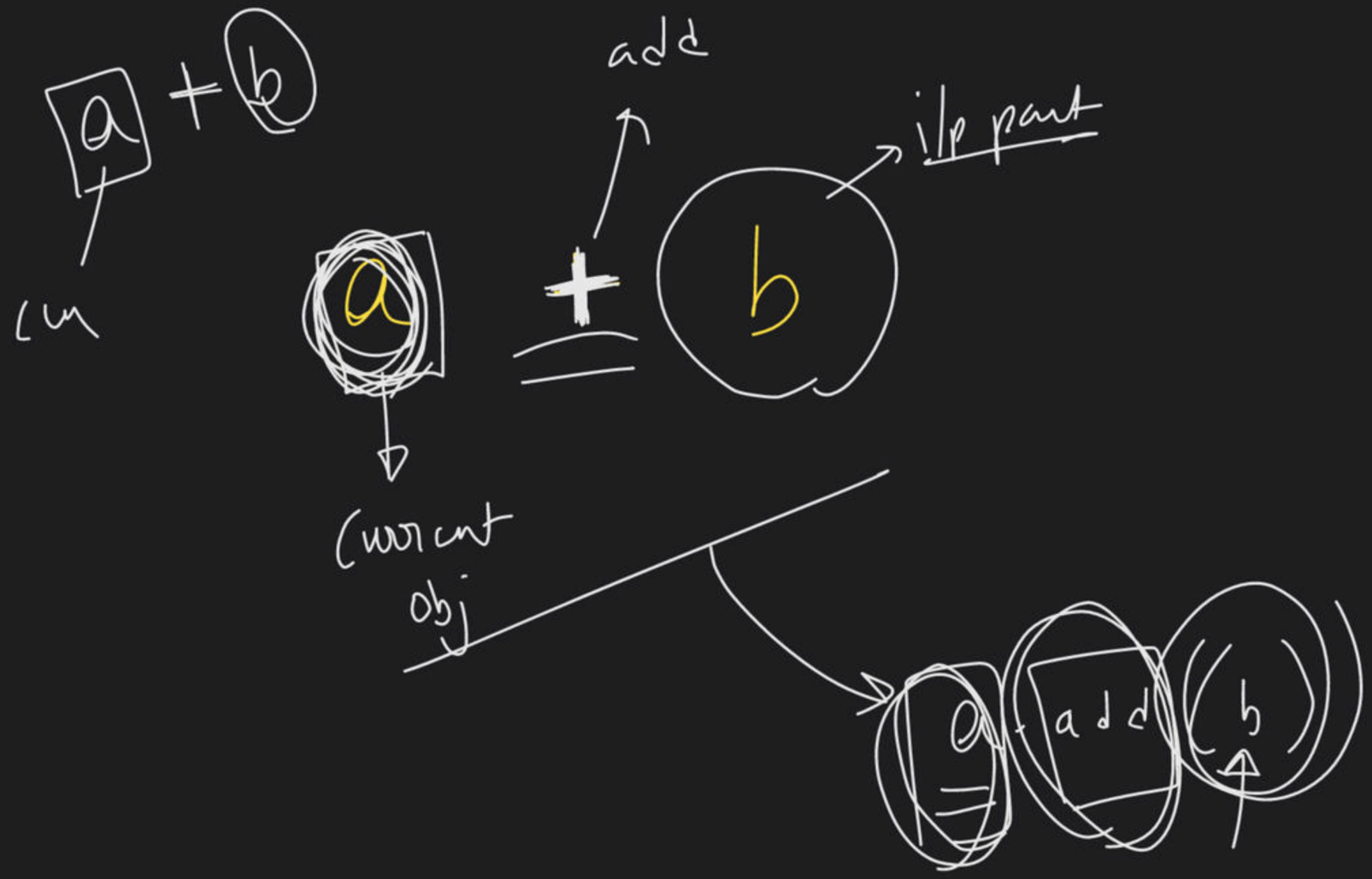

int print ( )
{
}
int print ( )
{
}

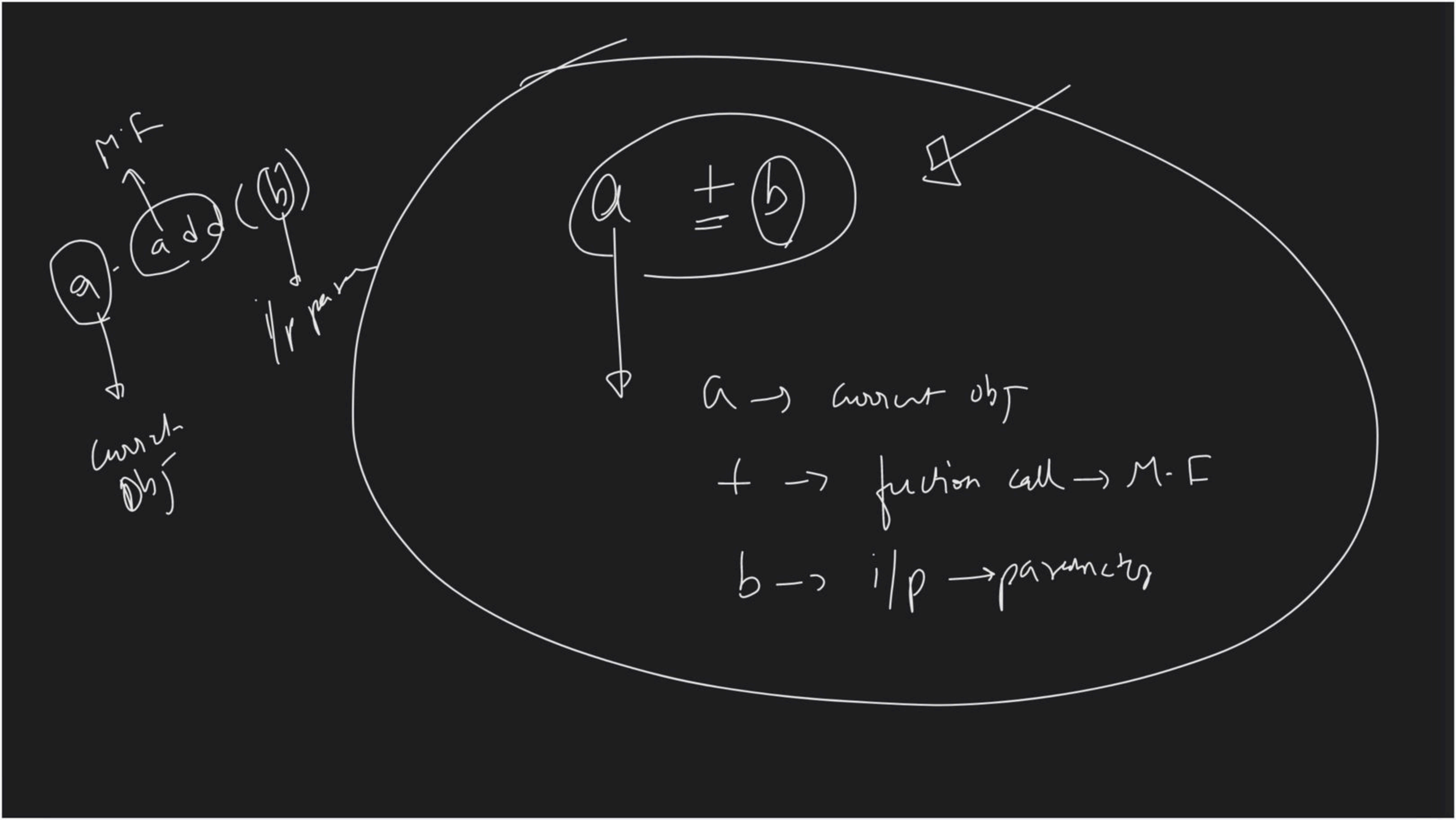

Polymorphism
Compile - time
Polymorphism
Run - time
Polymorphism


Compile -time Polymorphism
function Overloading
Operator Overloading
Operator ⊕
to
Overload


Obj
Value
print
Operator Overloading
find out
Google
Kon Kon
se operator
overload
karna
allows
hai
obj
print ( )
+
sum
concat
overload
<<
>>
minus
obj
Syntax
return_type operator+ ( )
{
}


print()
{
cout << this -> age
<< this -> wt
<< this -> no;
}
obj.print()
cout << obj
age
wt
no


a + b
add
i/p part
a
+
b
Current obj
a
add
b


M.F
a
add
(b)
a
i/p para
Current Obj
a ± b
a → current obj
f → function call → M.F
b → i/p → parameters