

Recap

0 OPS:-
====

OOPs - II

Foundation Course on Data Structures & Algorithm - Part I

Prayagraj

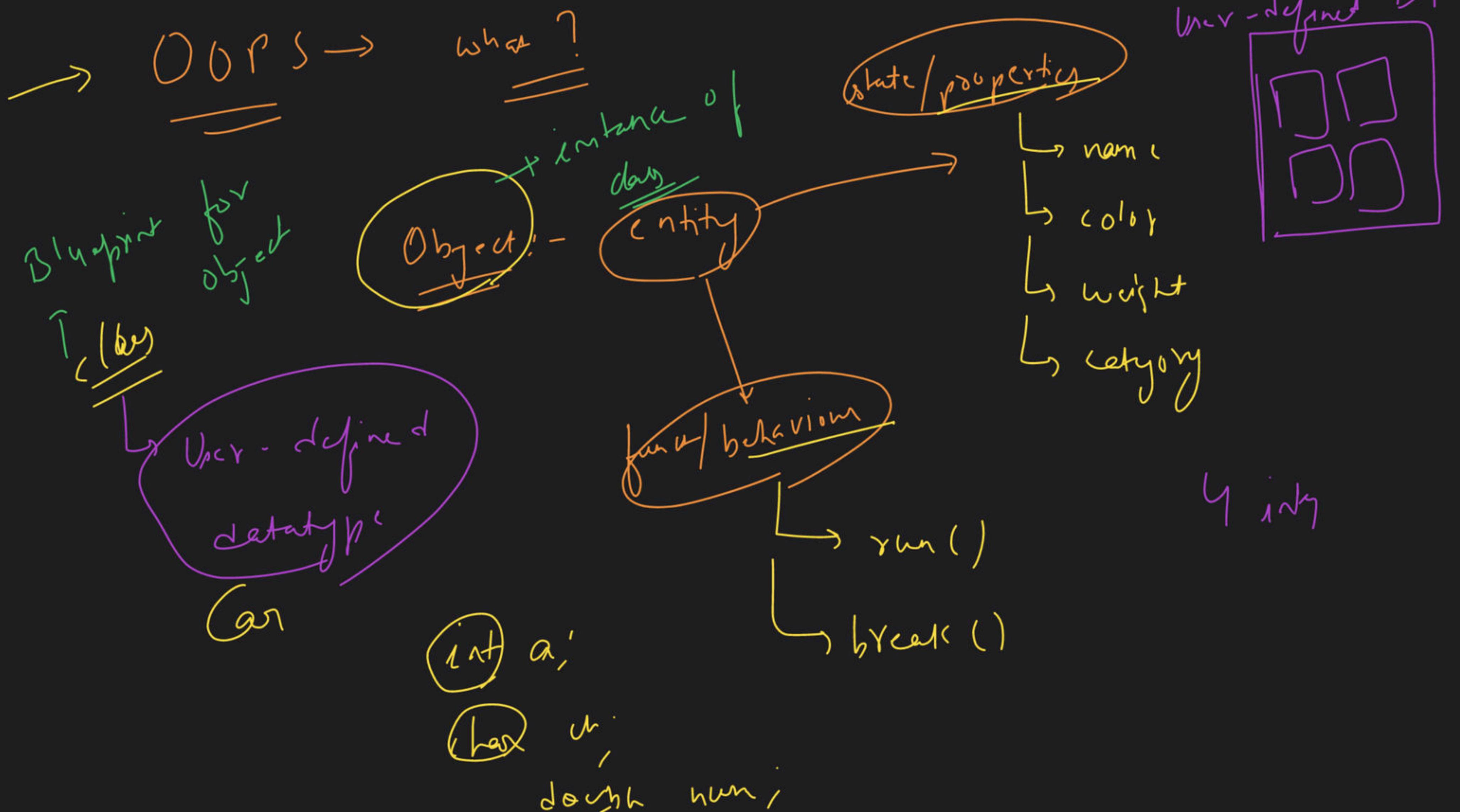
7:48 8:00 →

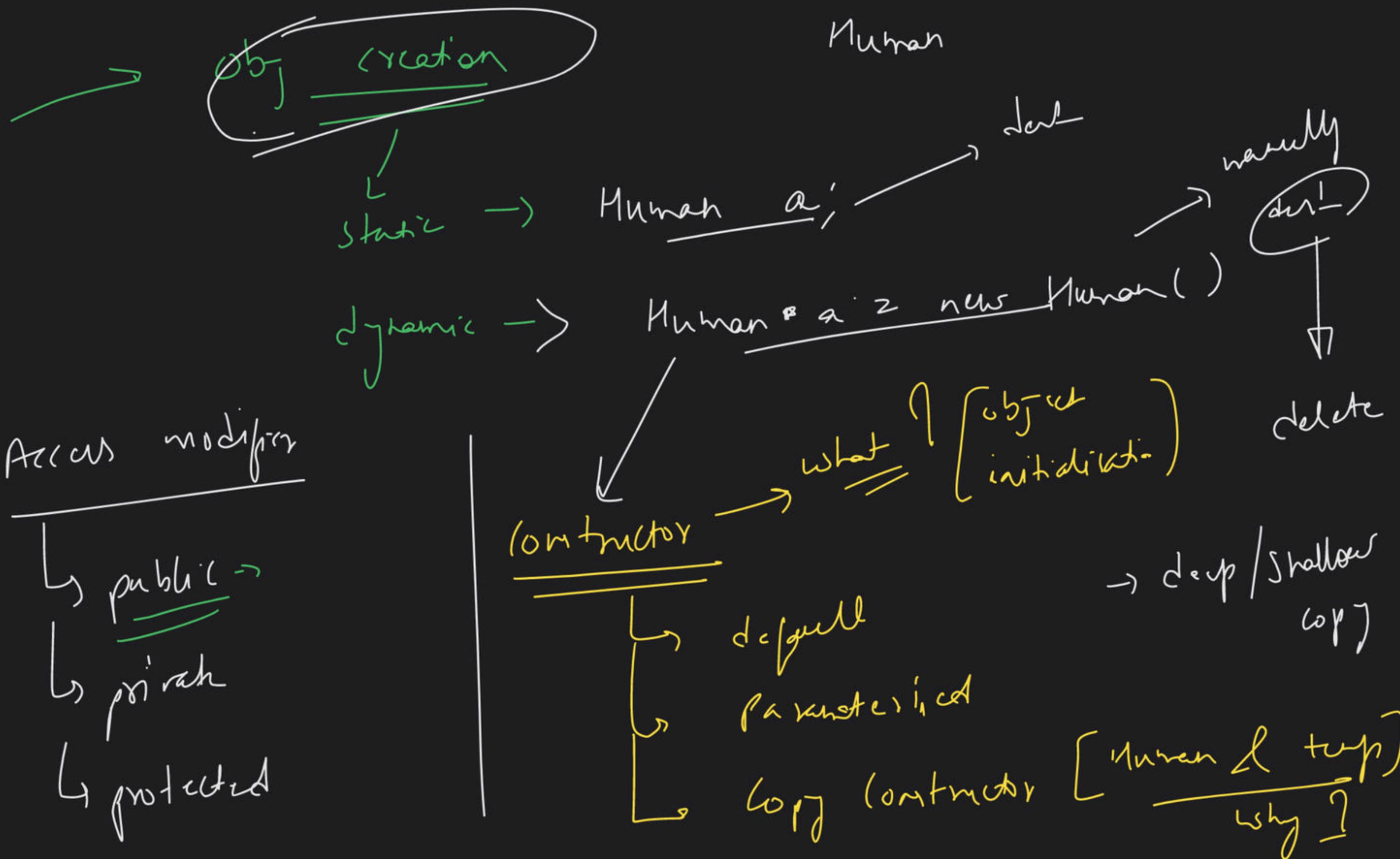
X - 2 min

8:59 → 9:00

Bank Training sheet
====

Mil gya - ?





	<u>public</u>	<u>private</u>	<u>protected</u> ↗
<u>within class</u>	✓	✓	?
<u>derived class</u>	?	?	?
<u>outside class</u>	✓	✗	✗

→

Empty class

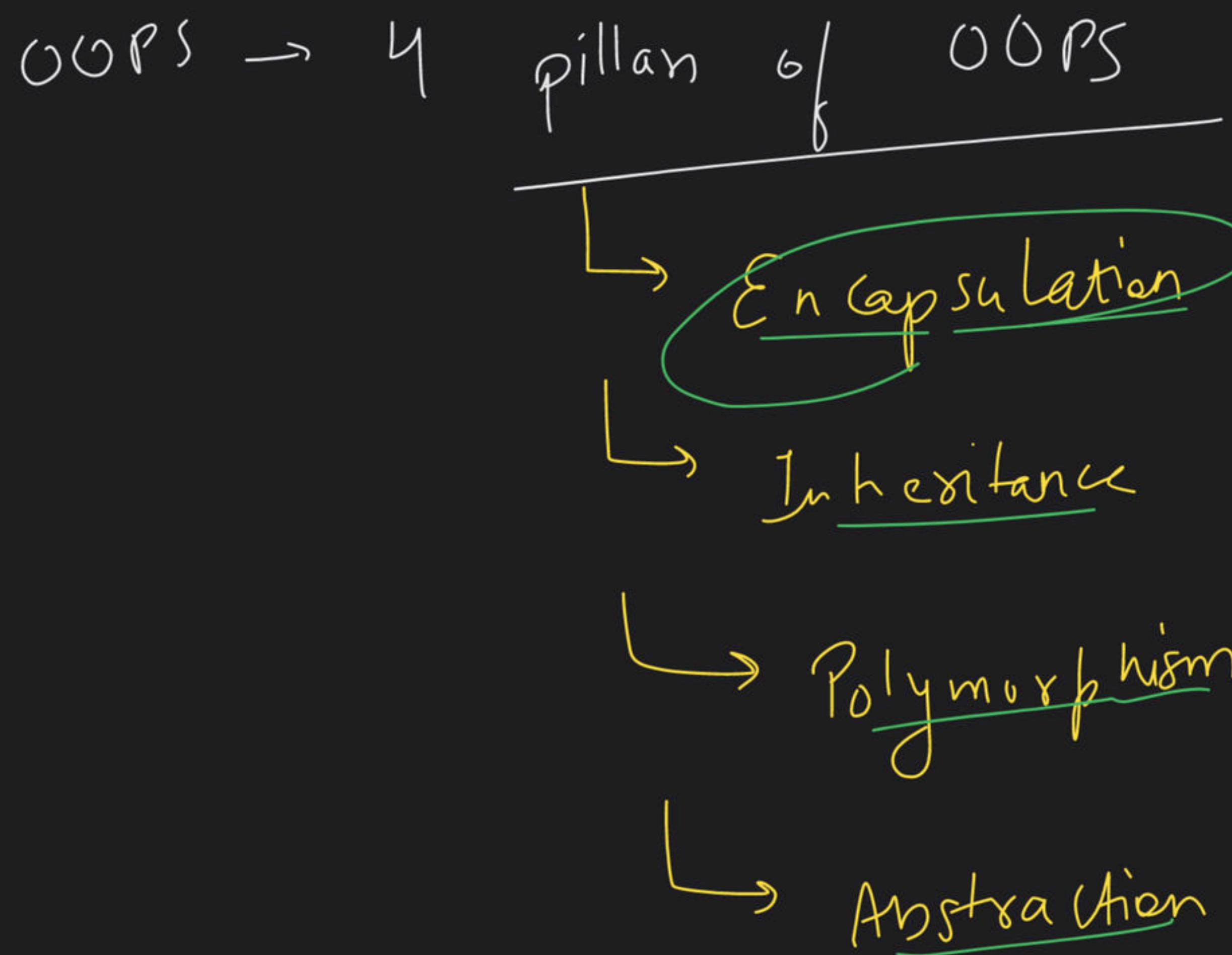
```
class Human  
{  
};
```

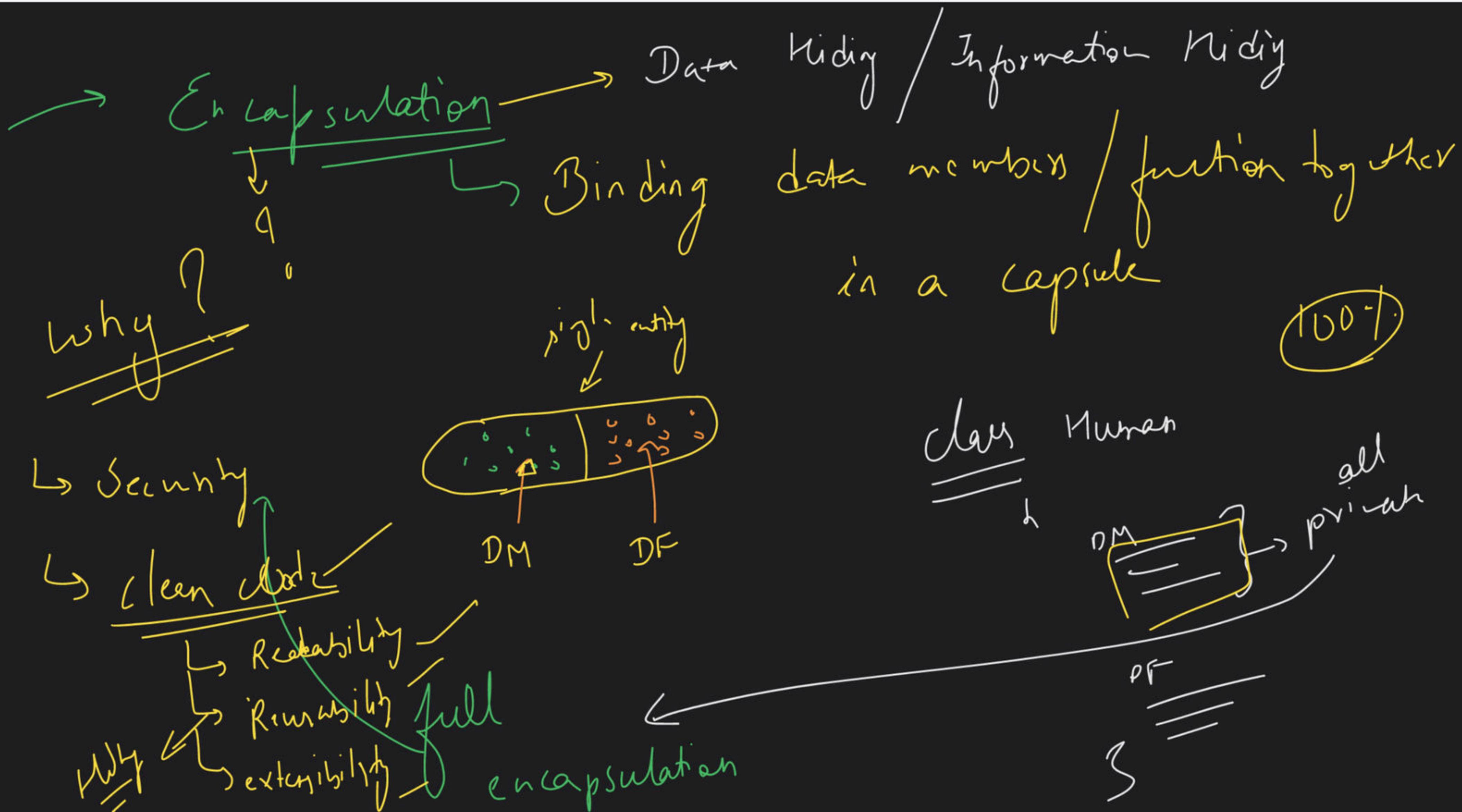
error
or
hot

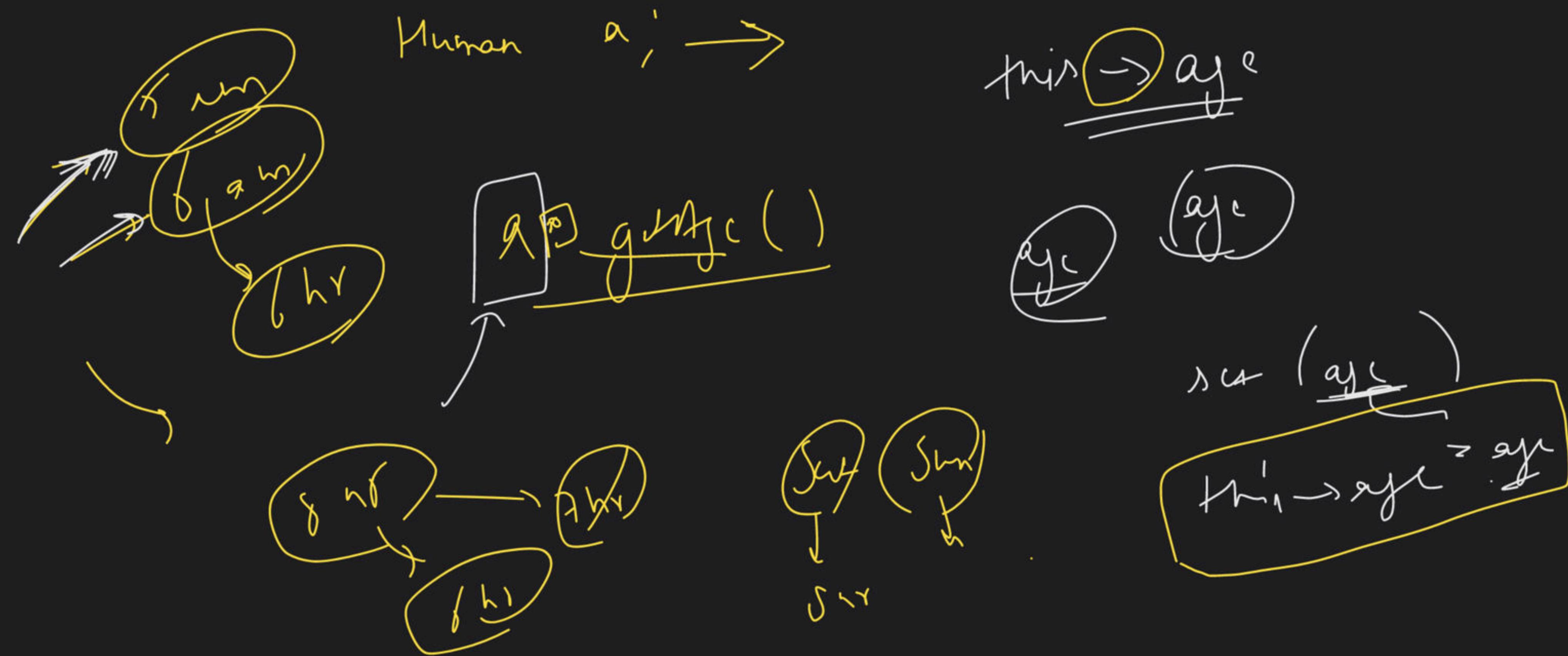
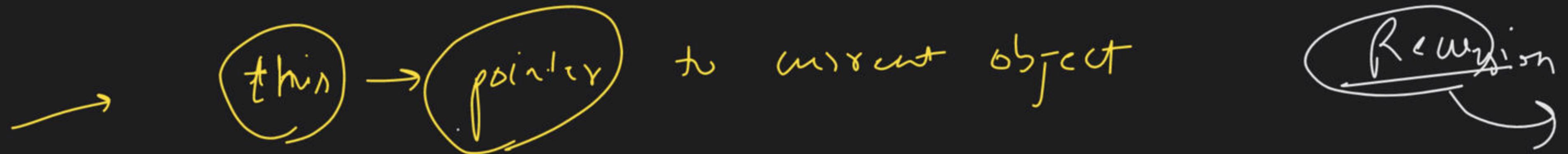
zeta

Codahuk
Barbar
YT →

Human a;
Cow << sizeof(a); → AH
1







D.M.
int ay^i

Set ay^i (ay^i)

{

$ay^i = ay^i;$

}

:

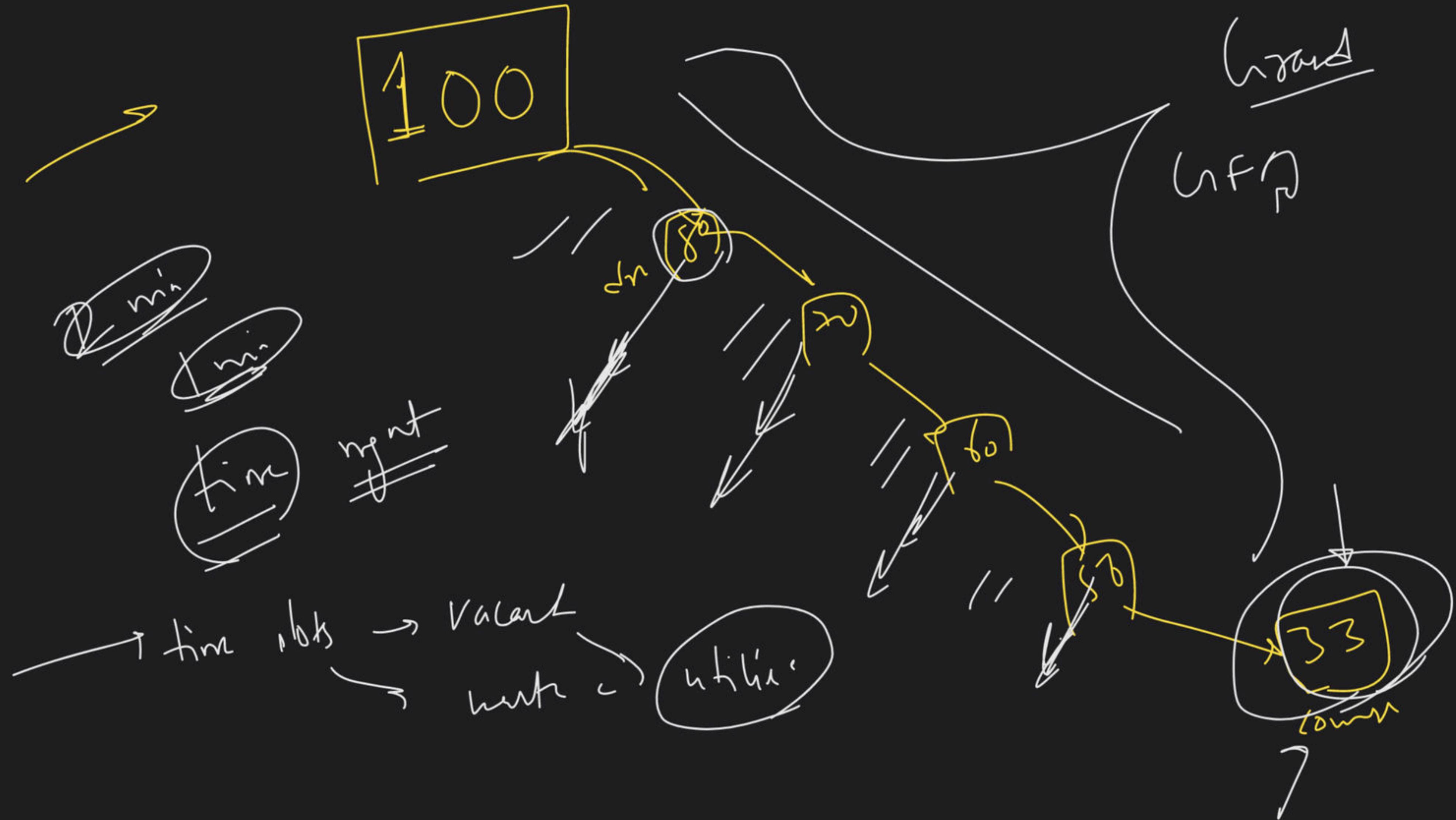
for (numObj obj)

}



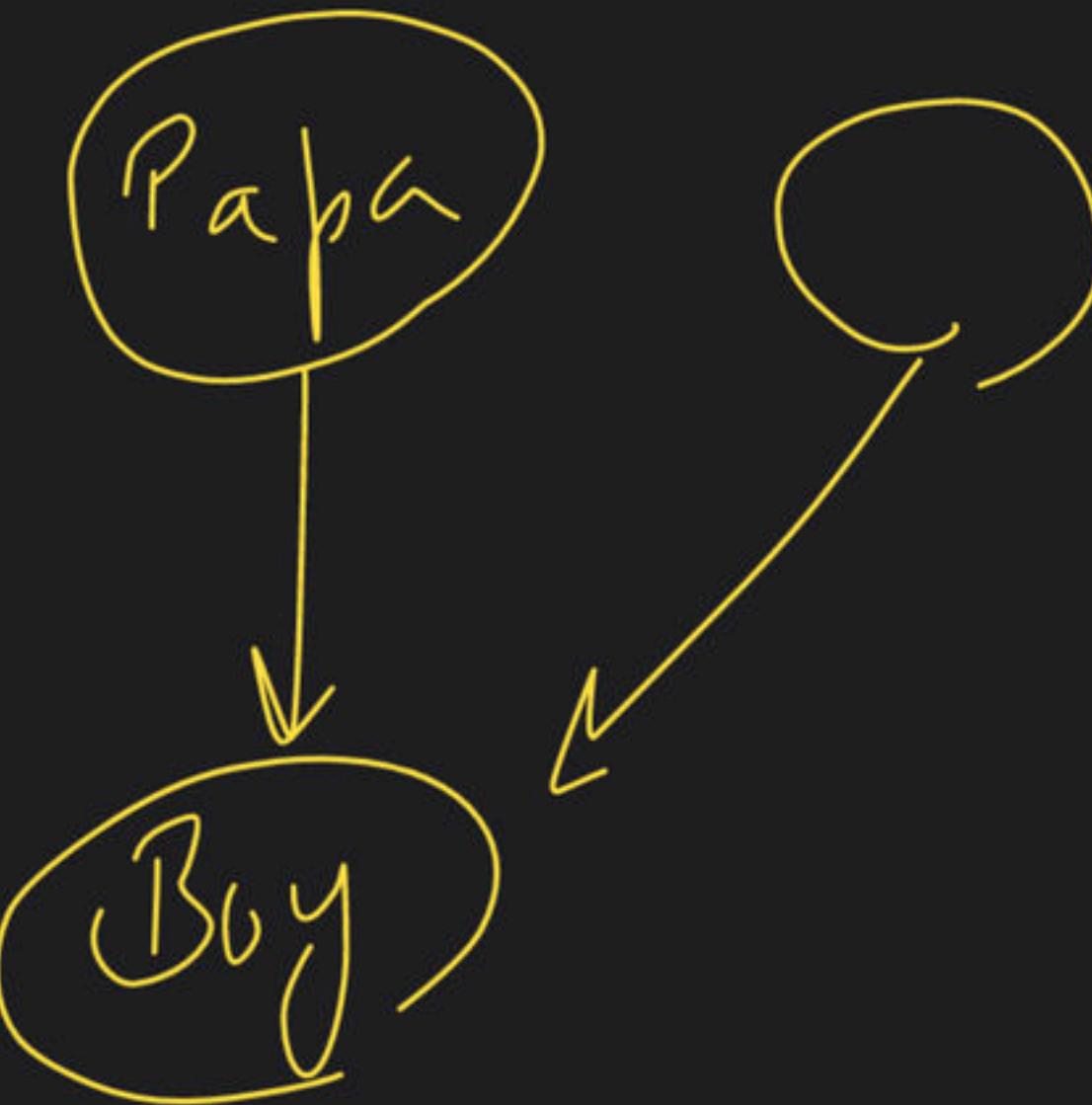
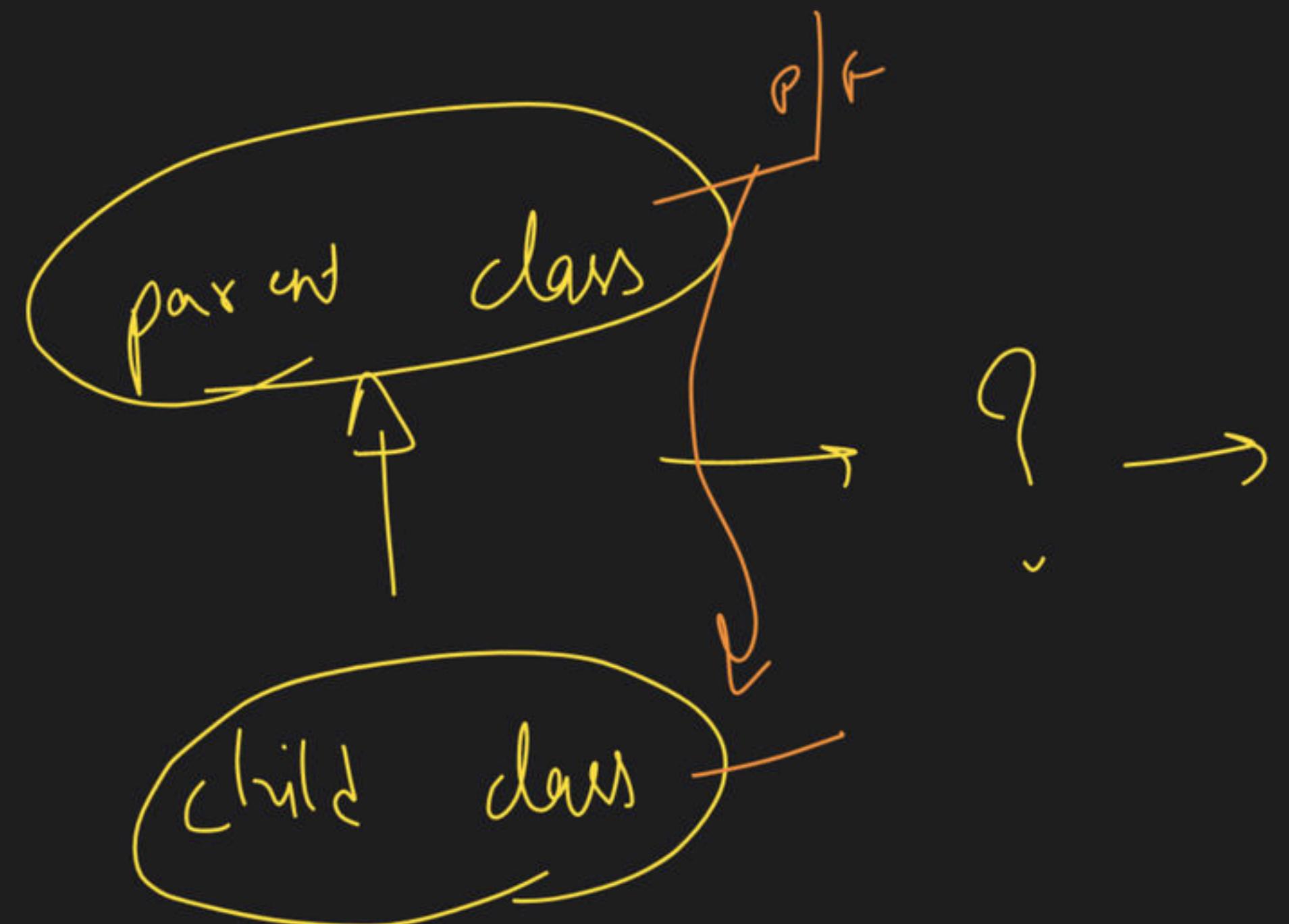
student obj =

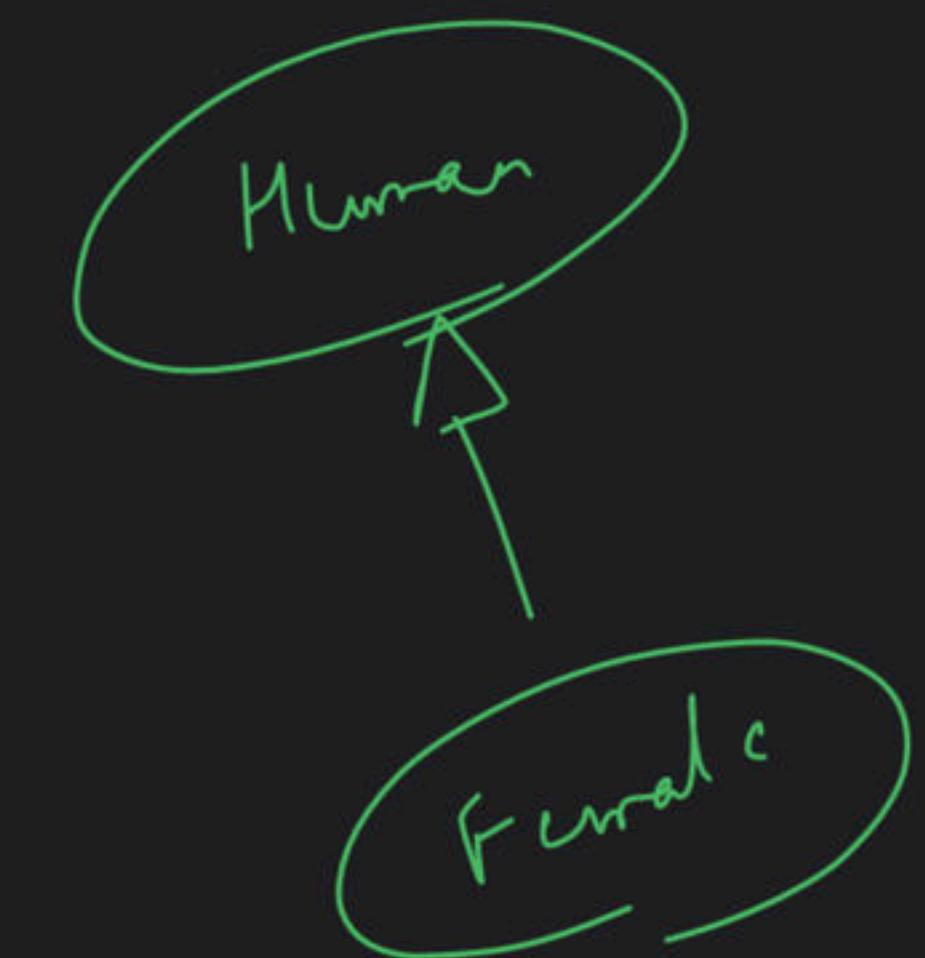
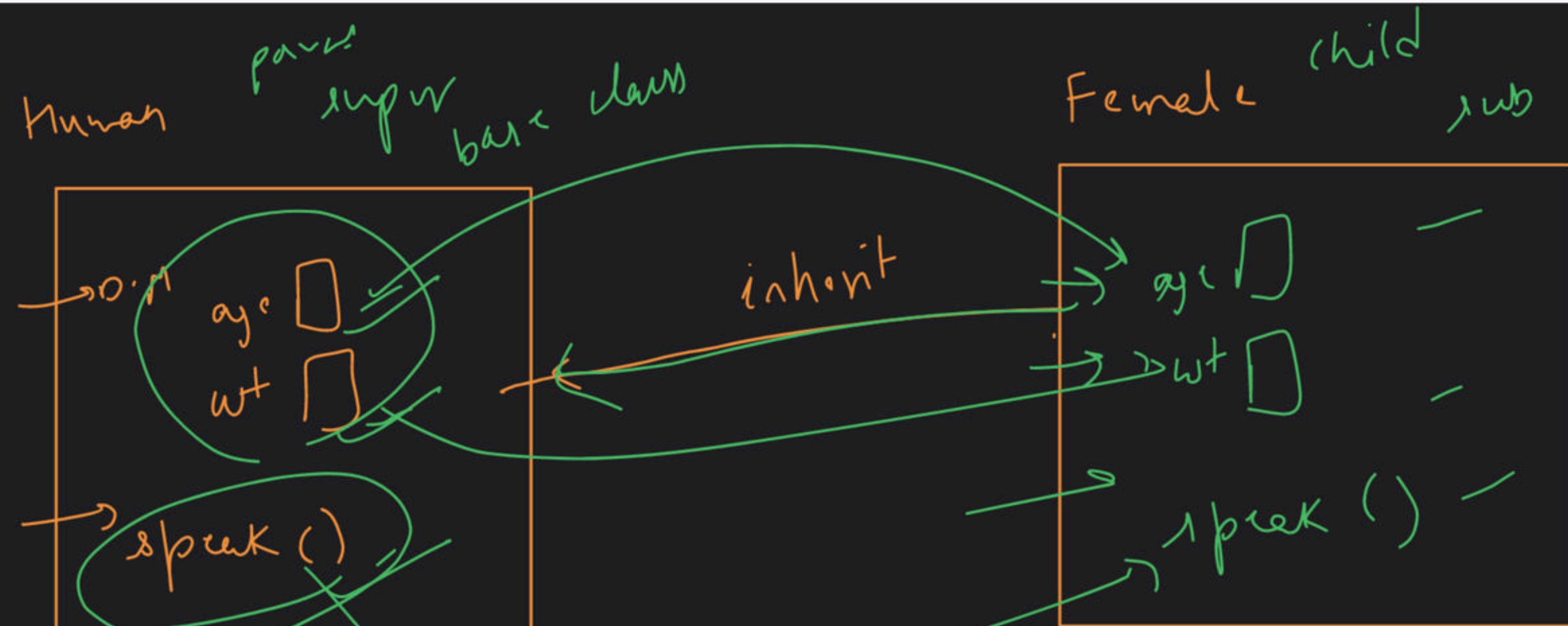
new Student



→ encapsulation → Imp → full c → Adv.

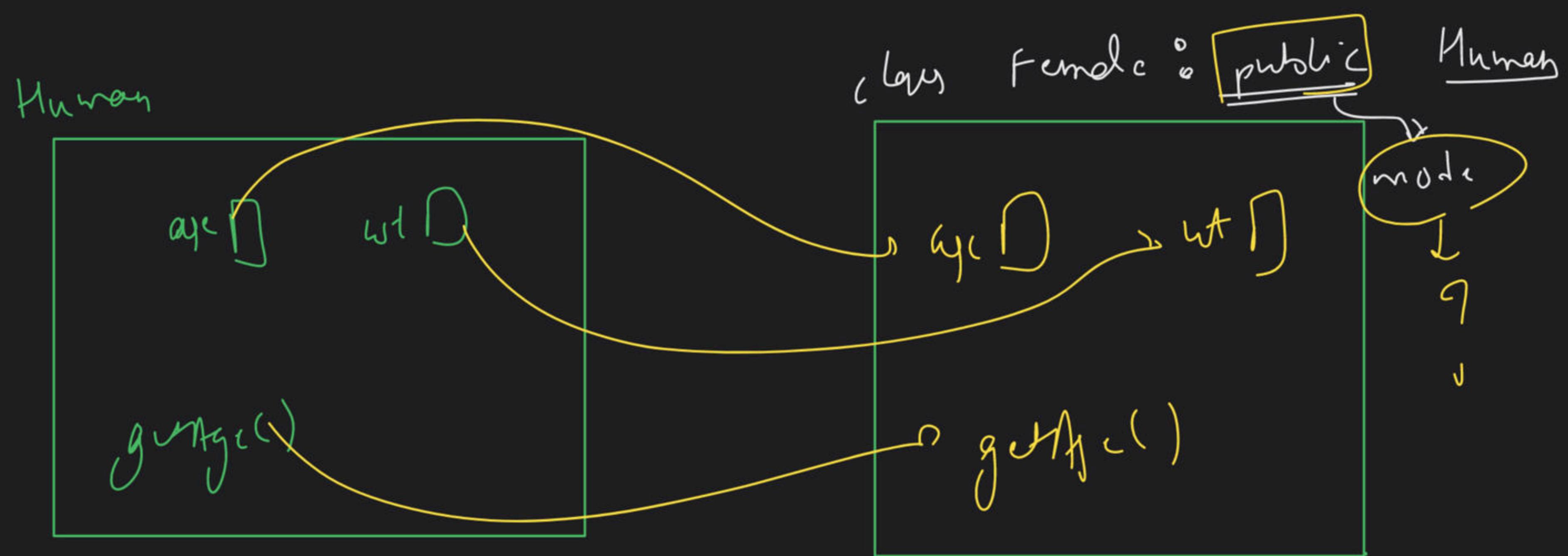
Inheritance :-

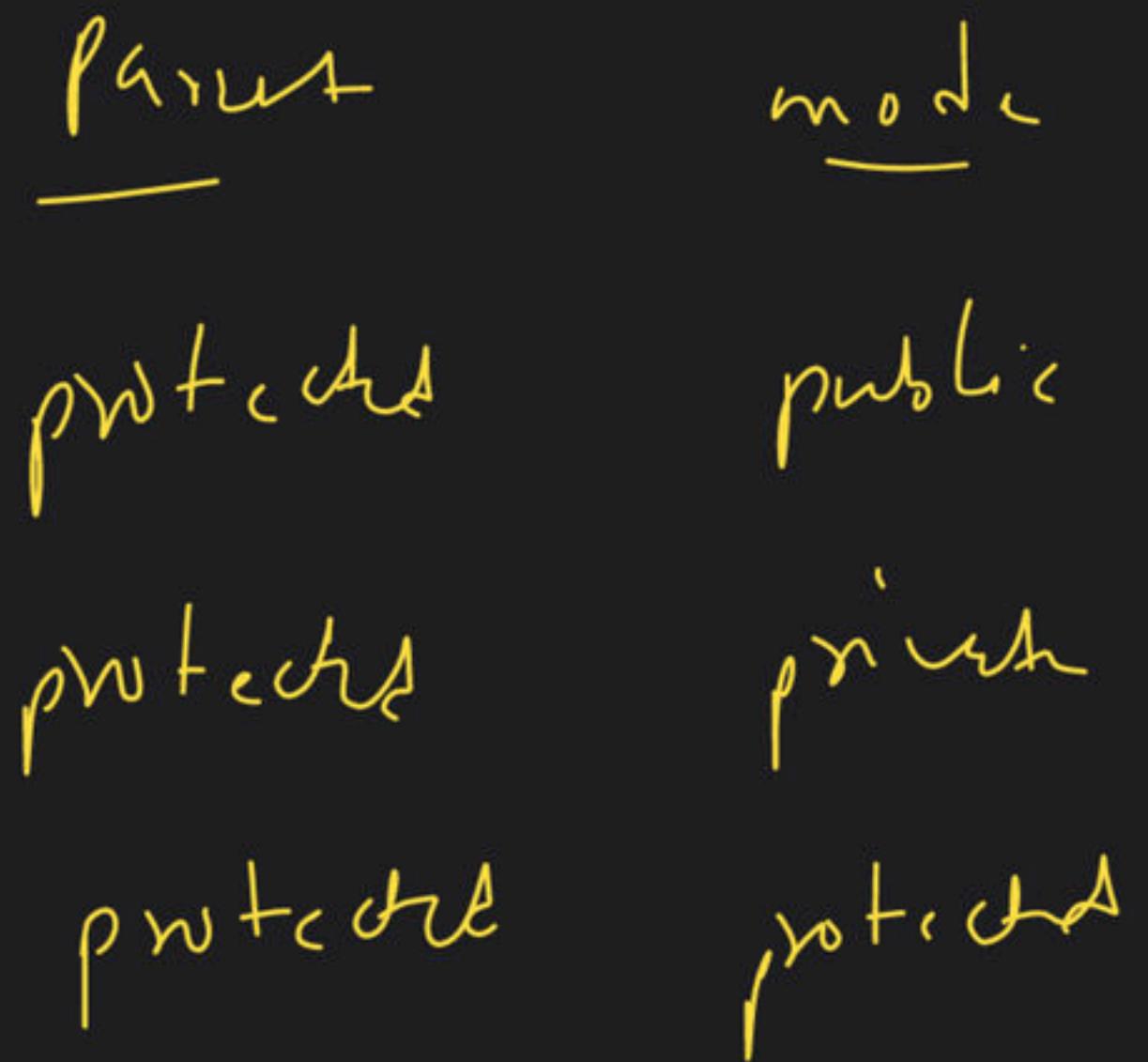
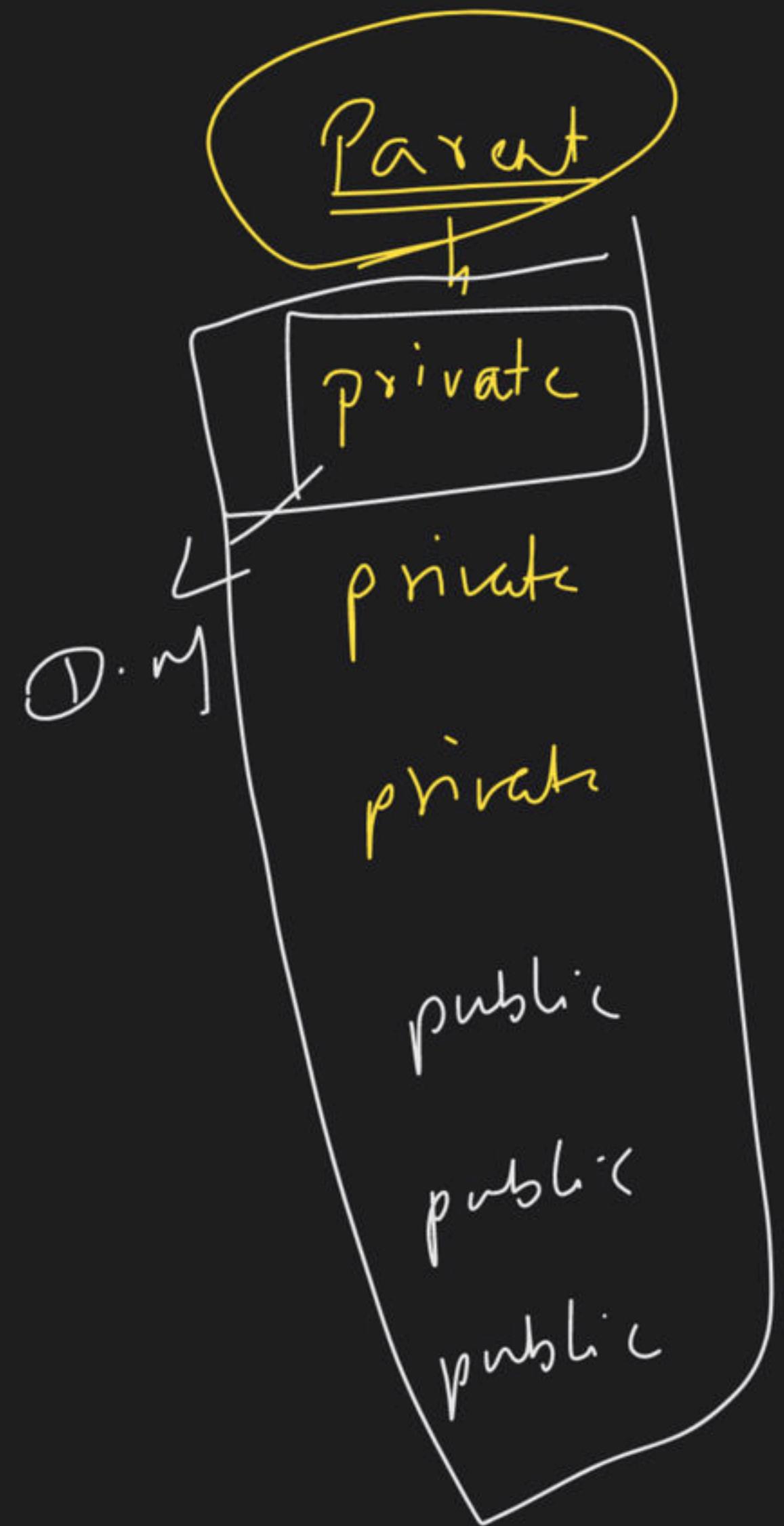




Adv:-

→ Reusable code

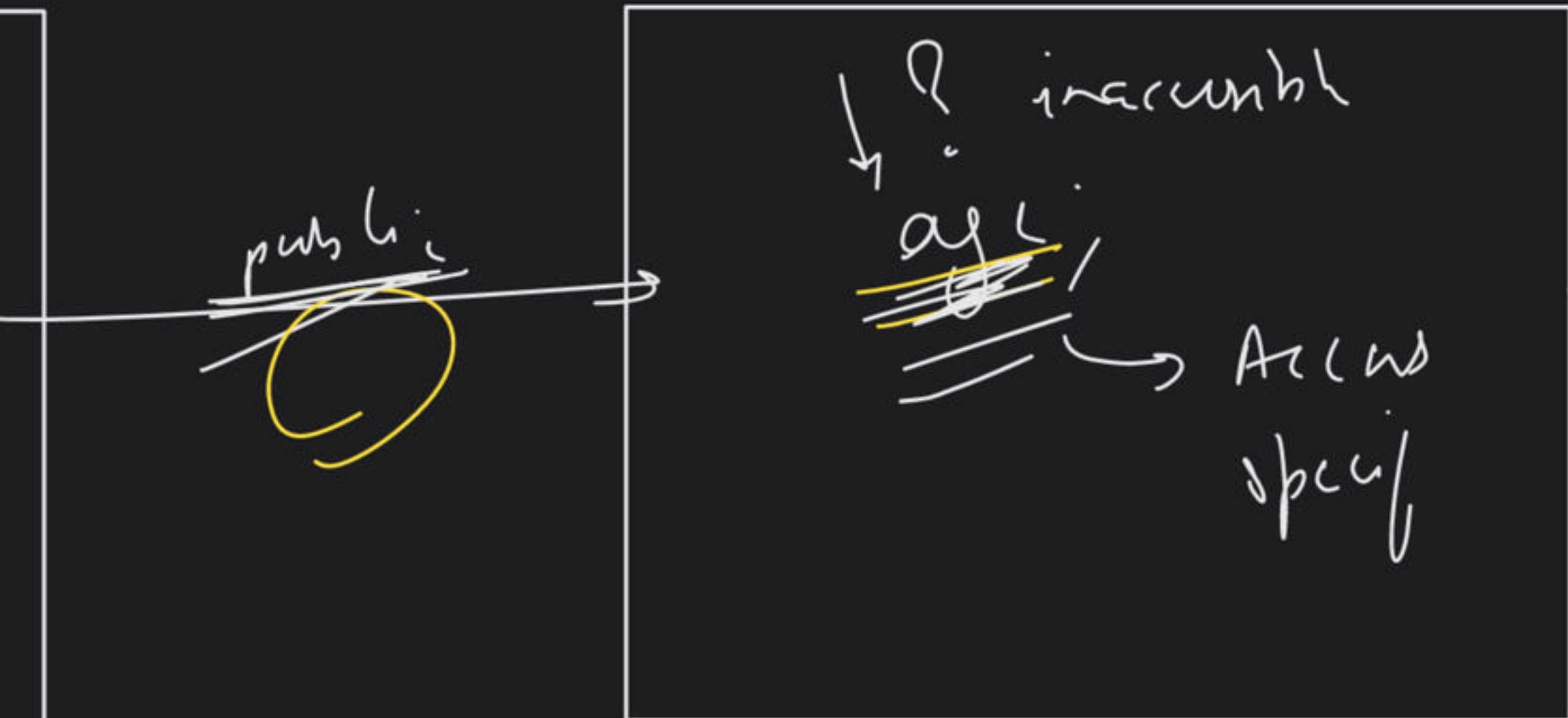
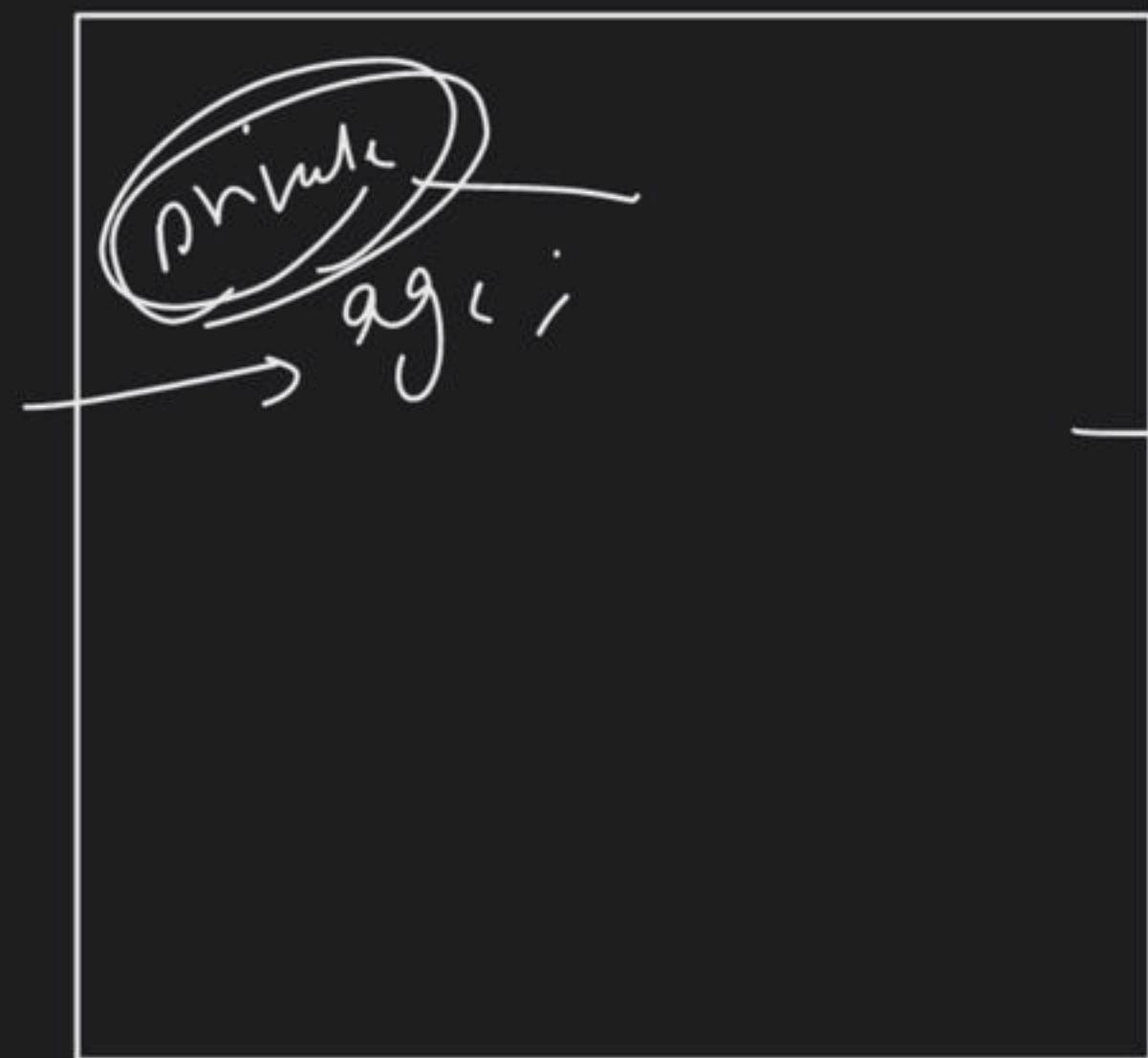




class Fandu : Human

mode

Human



parent

private

private
private

mode

public

private

protected

RawUr

~~private~~ in Accessible

Parent

public

public

public

mode

public

private

protected

Root ?

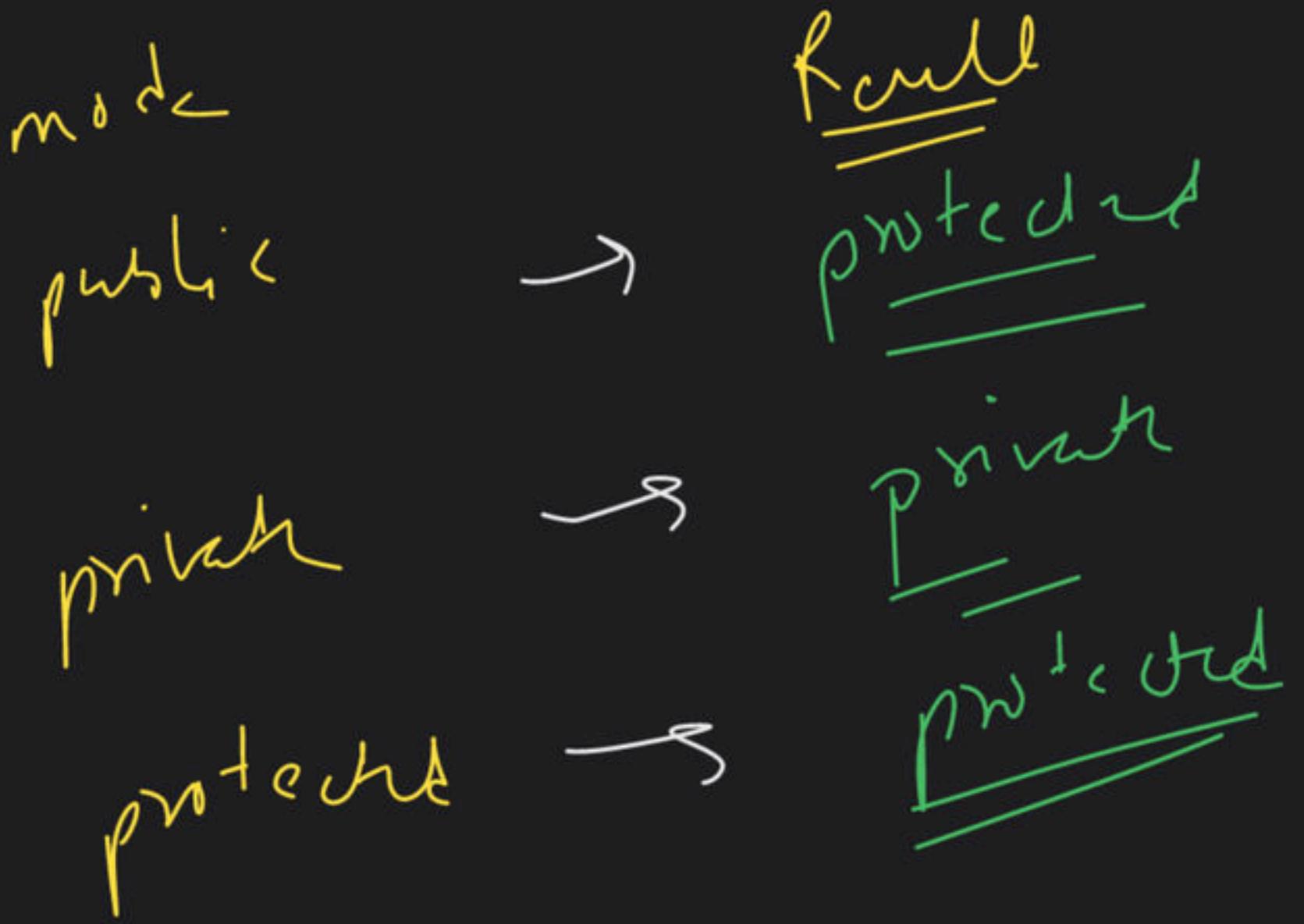
public

? unavailable

protected

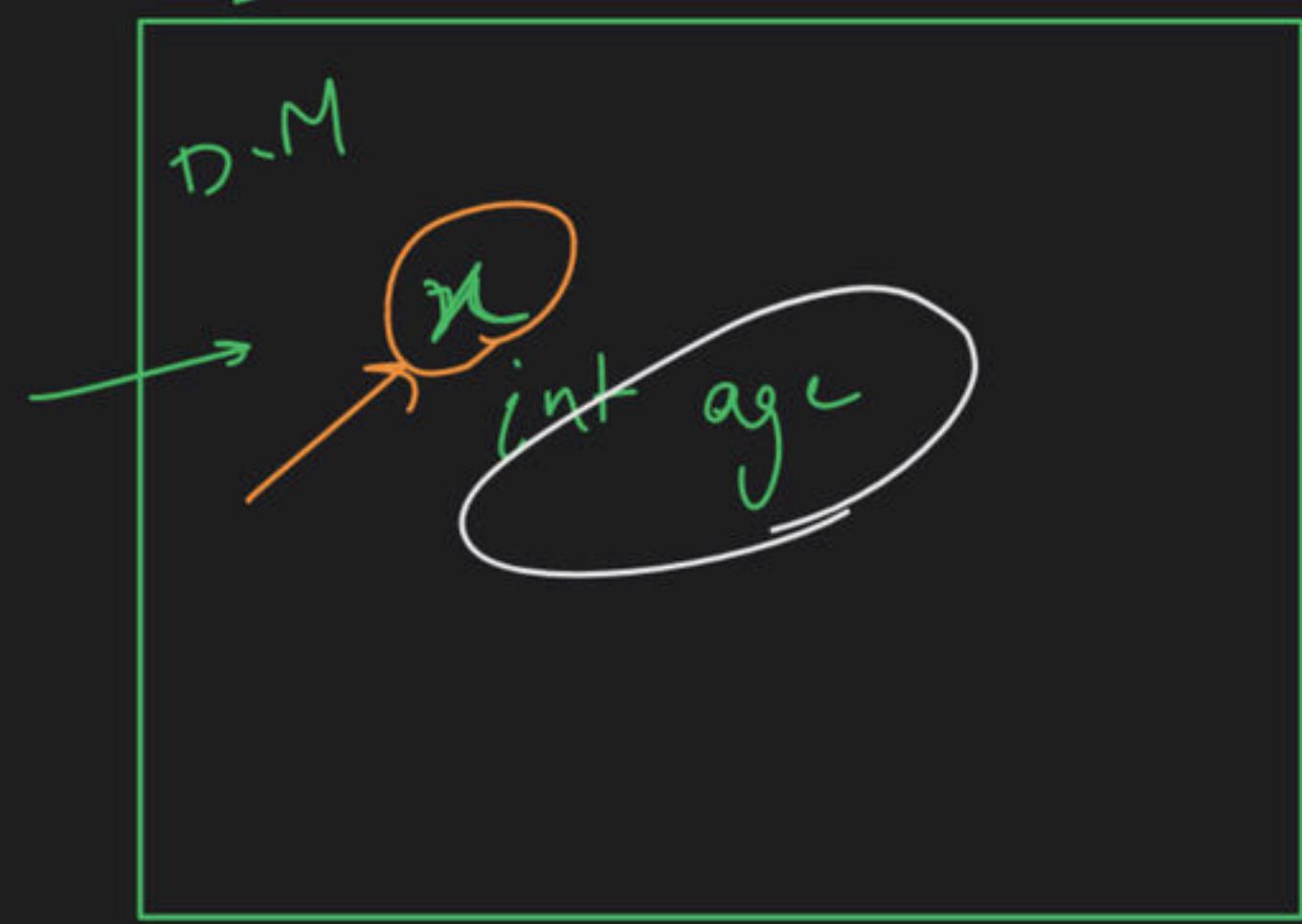
?

protected
protected
protected

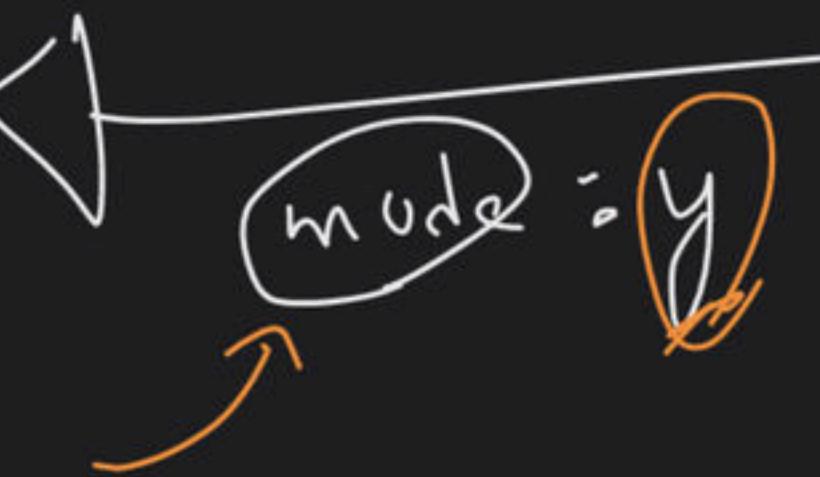


$x \rightarrow$ public / private / protected

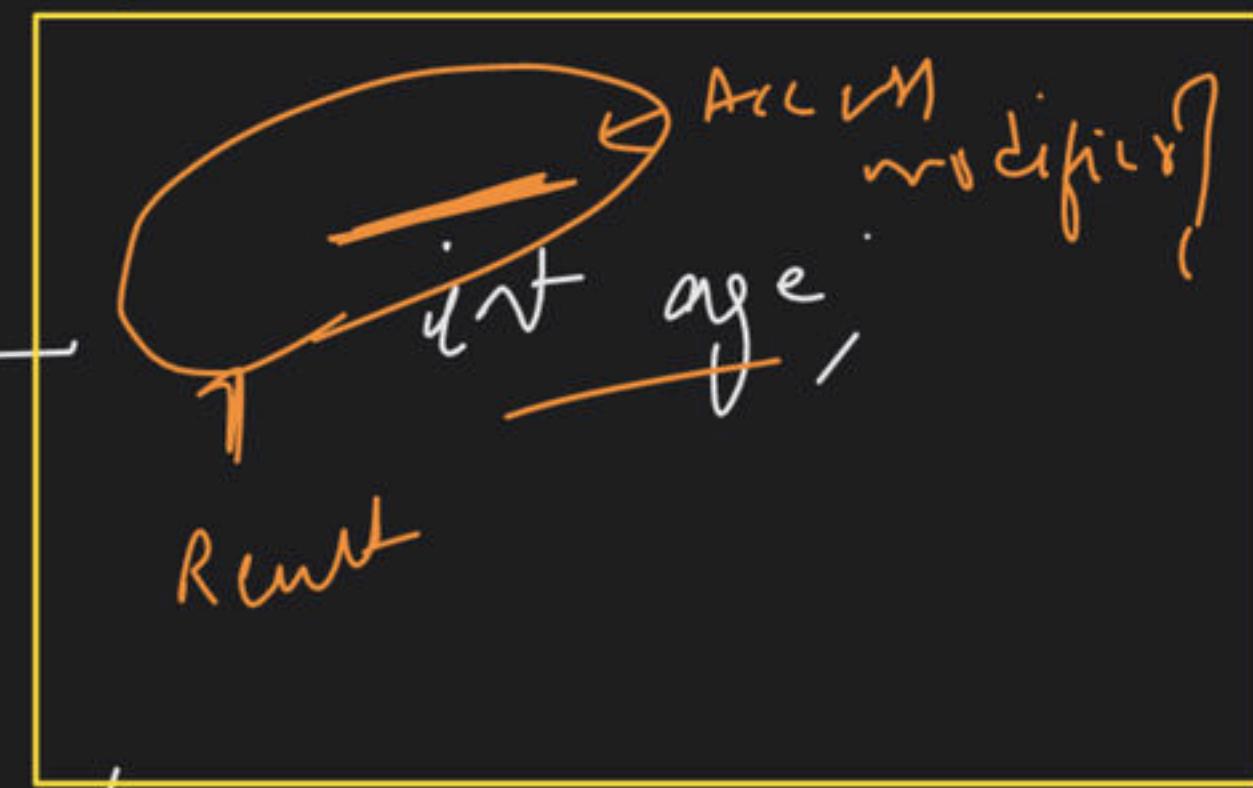
Parent



inherit



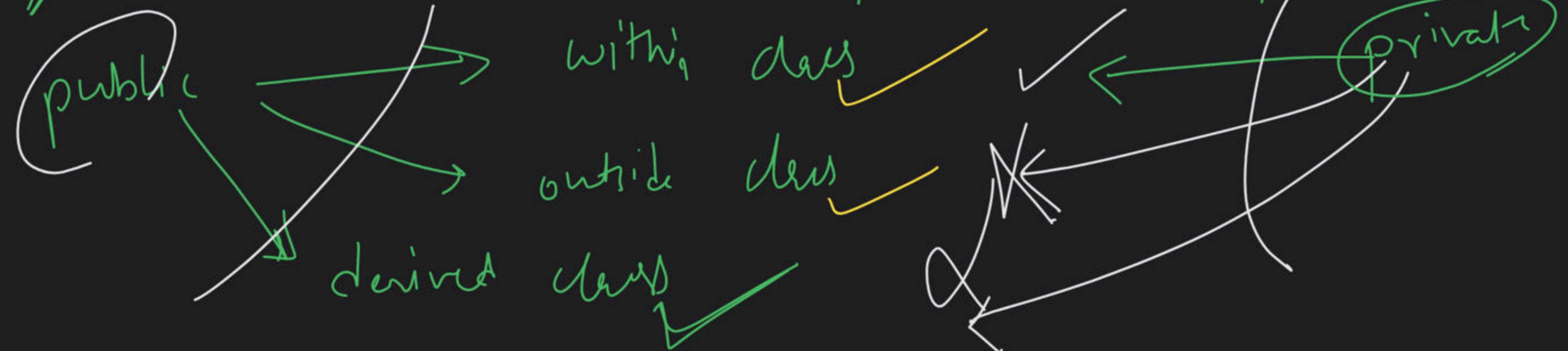
Child

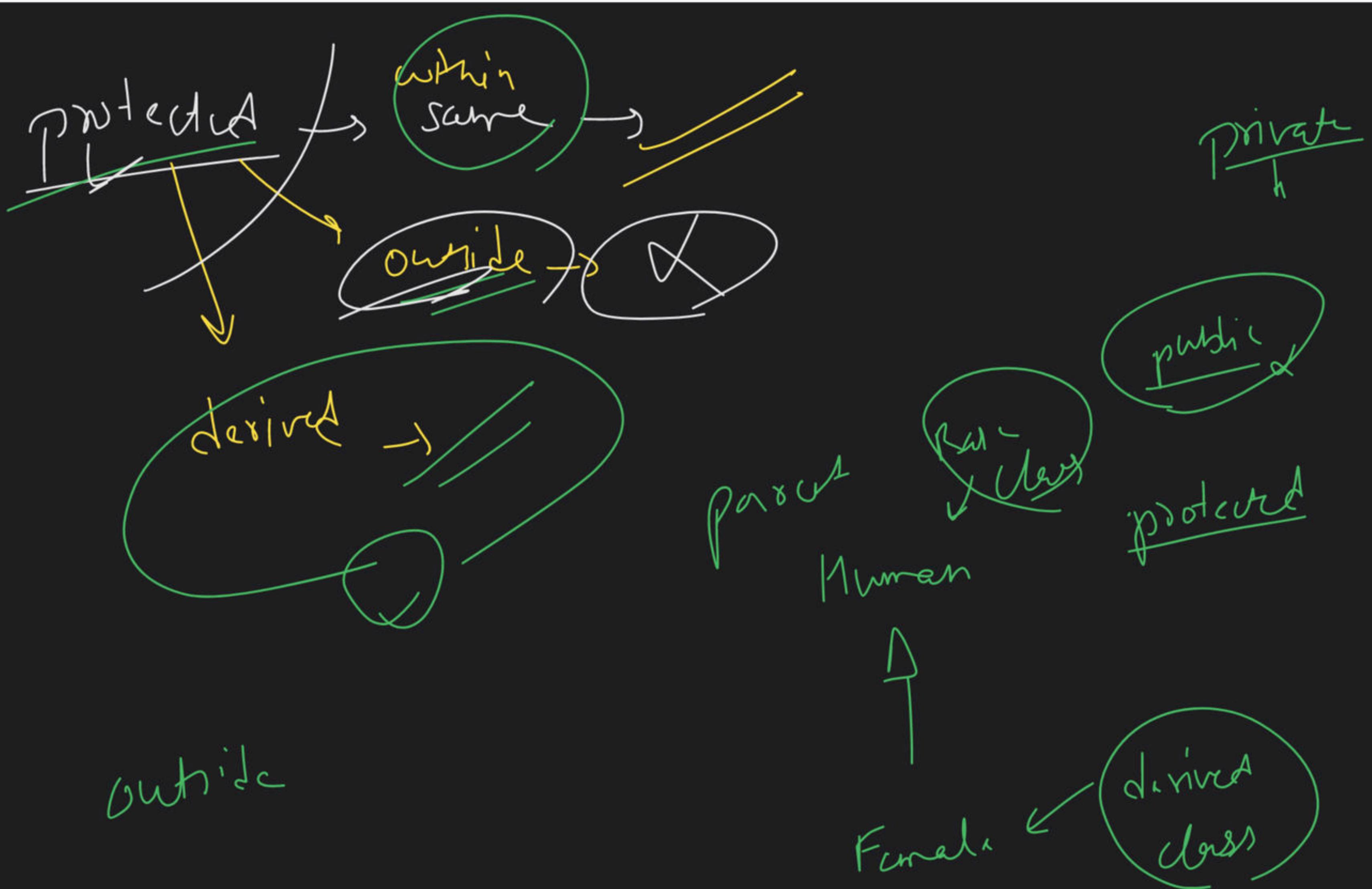


$y \rightarrow$ public / const /
private

Grand chart →

Parent →	public	private	protected
mode	public	private	protected
↓	NA	NA	NA
public	private	private	protected





class Human

{

}

}

→ within class

class friend : public Human()

{

→ friend class

int main()

{

}



outside class

Ramnath

Human * a = new Human();

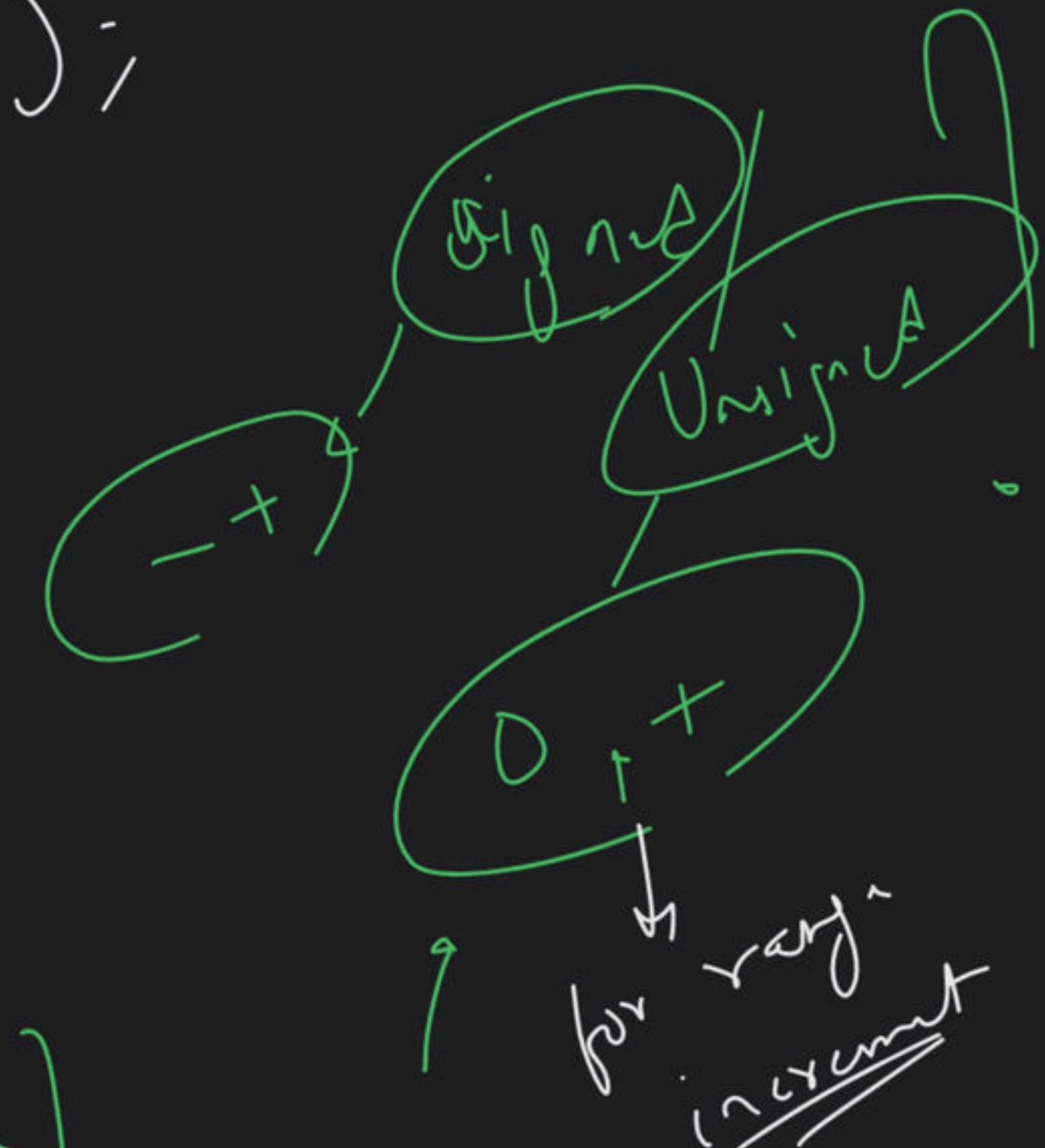
a->age = 3;

a->wt = 3;

a->gutAge();

int a=3

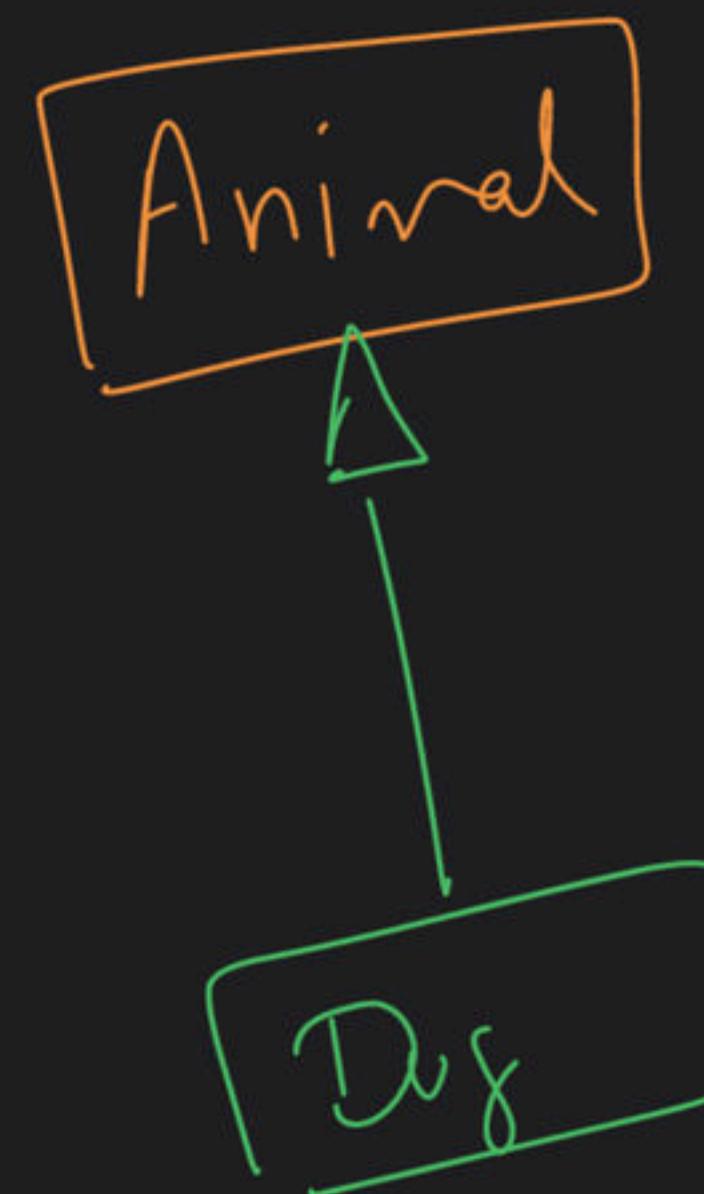
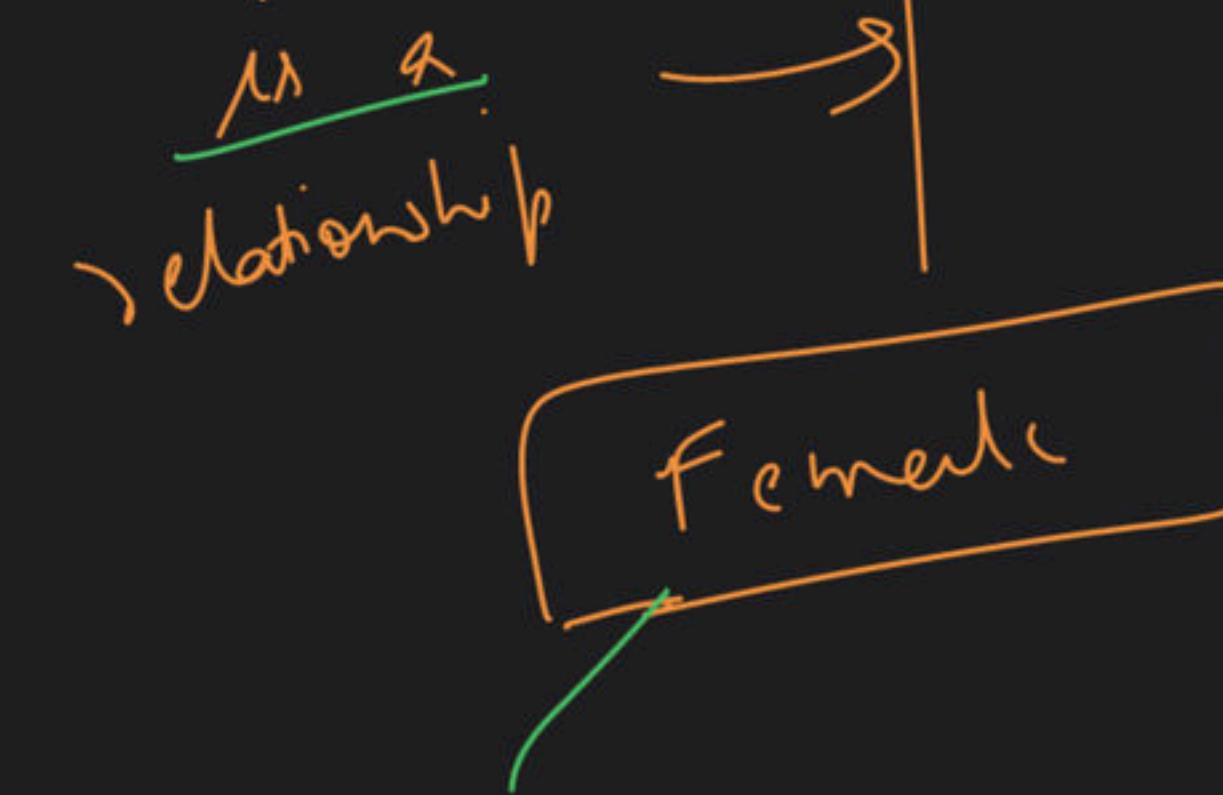
[- q + n]



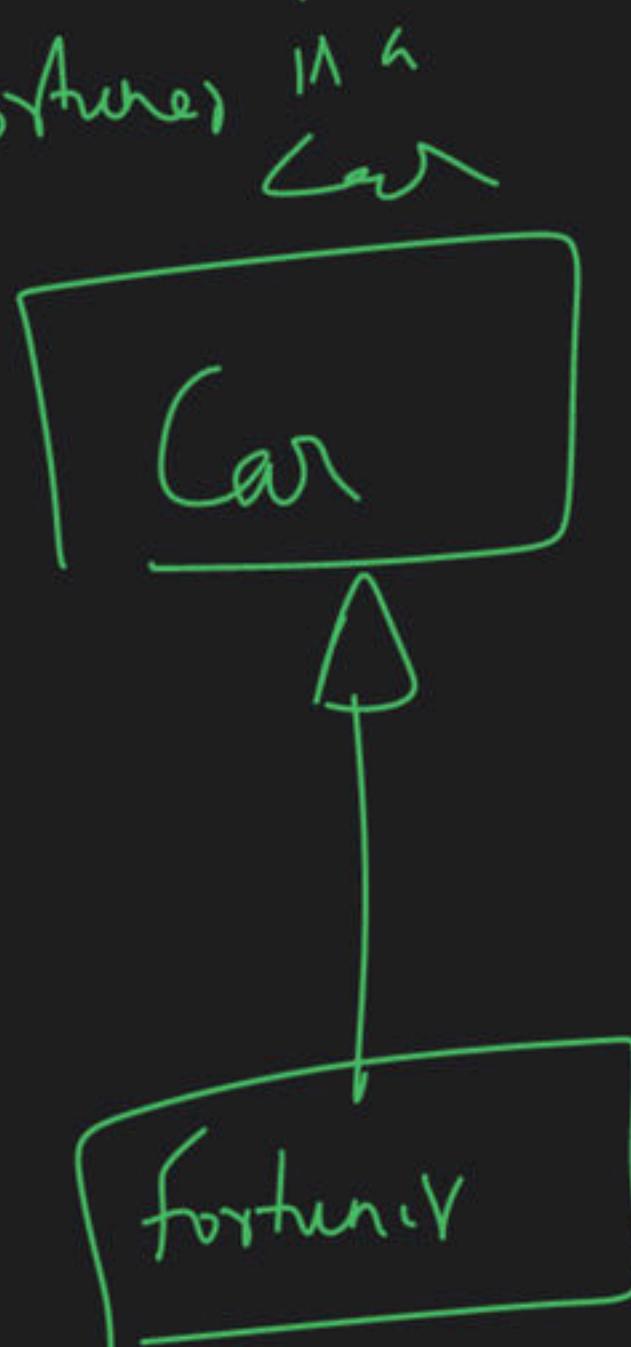
→ Inheritance → Now Adv'

types → Single Inheritance

Female is
a Human



Dog is a Animal



② Multilevel



Wren



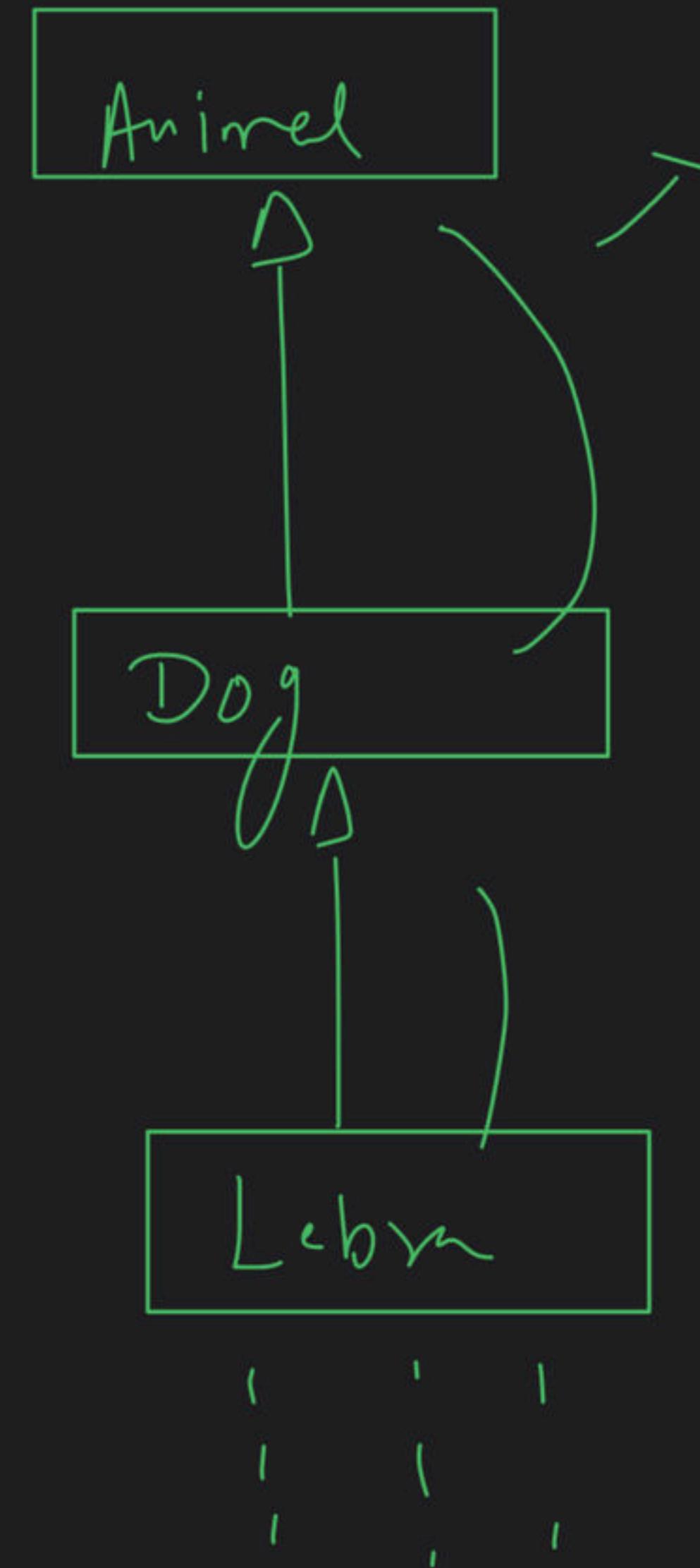
Mall



Boy



Dasha



Lebra is a Dog

Dog is a Animal

Ex

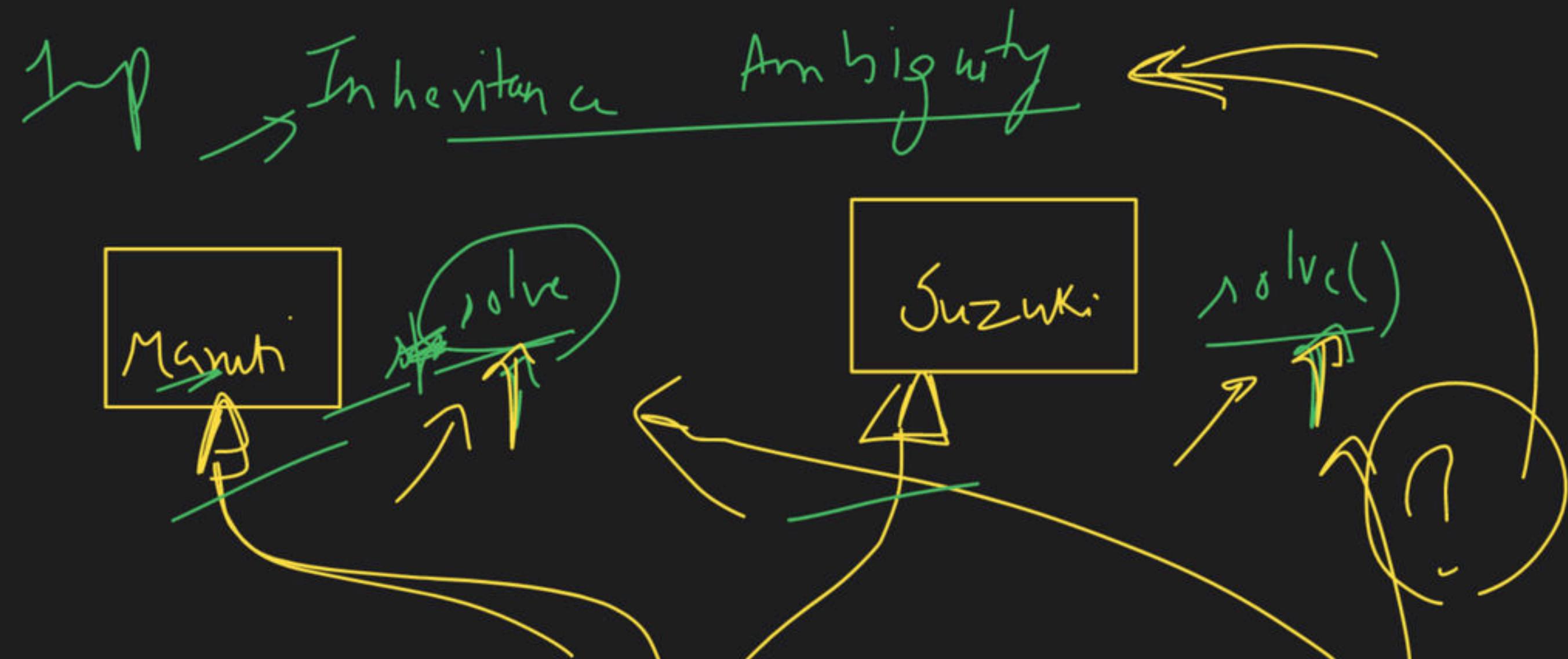
Car

Toyota

Kytrunex

③

Multiplicity



Swift obj

obj : Multi :: solve();

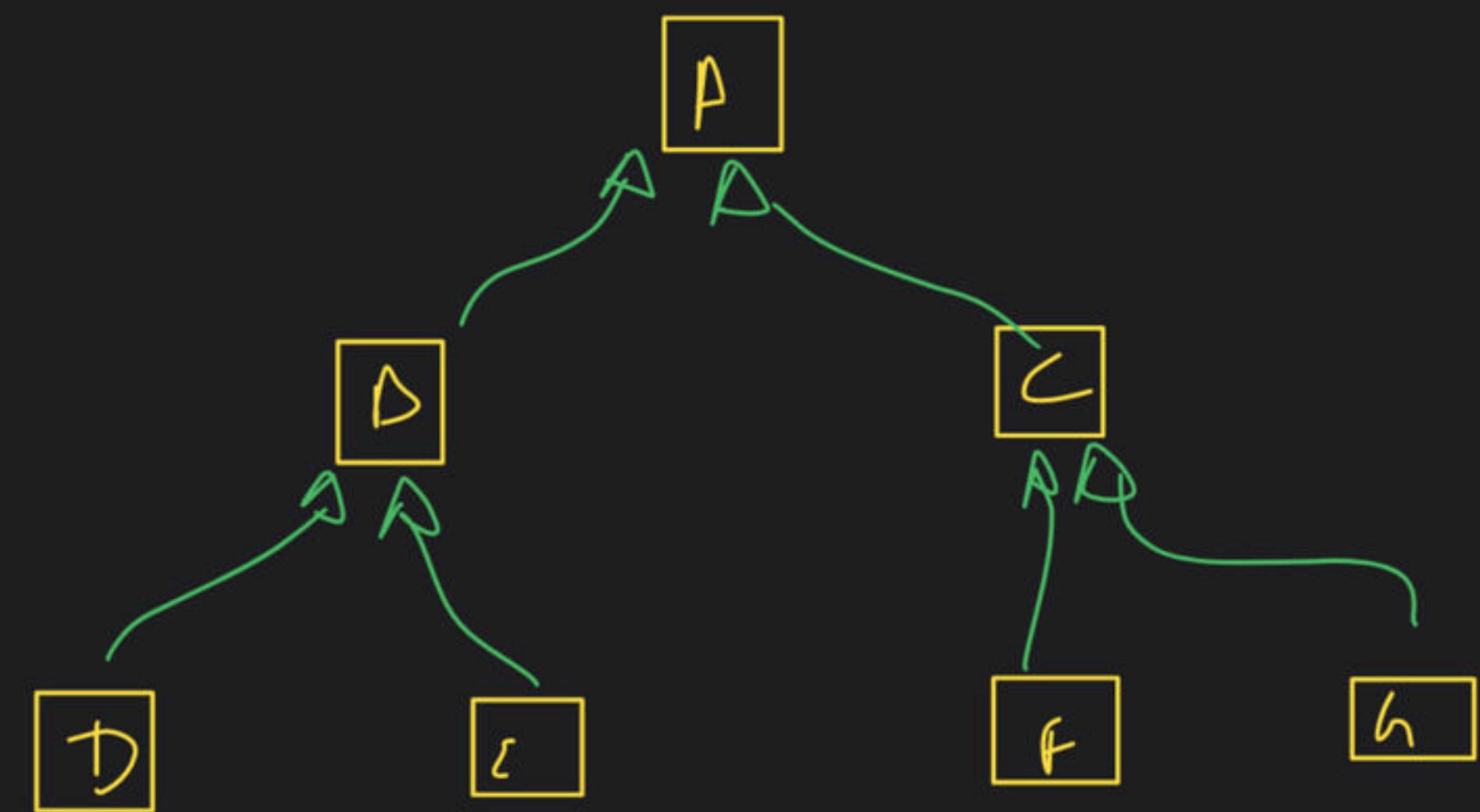
↳ class Swift
↳ public Multi, Suzuki
↳ object resolution

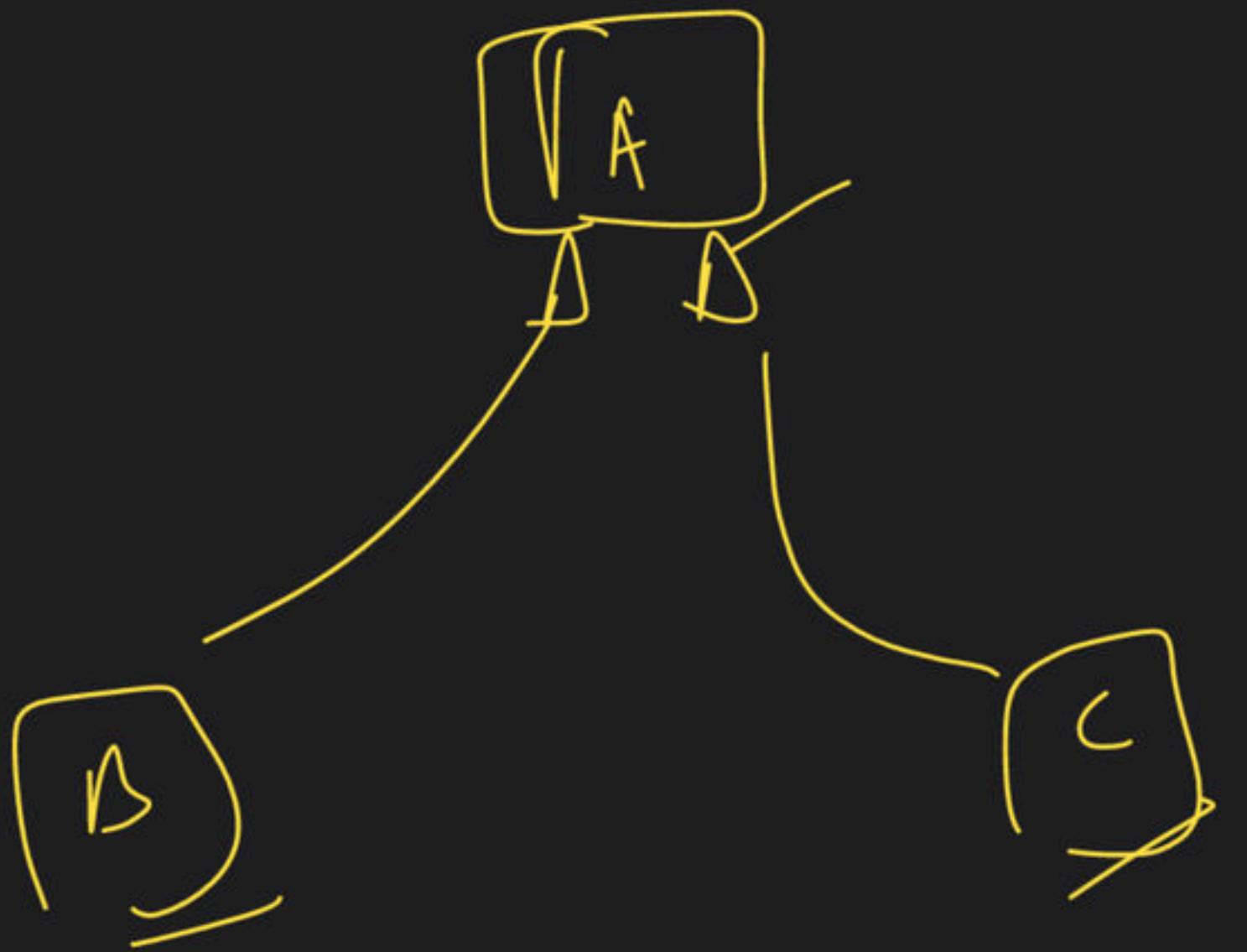
obj -> solve()
Riddle

↳ public Multi, Suzuki
↳ object resolution

Hierarchical :-

One class activity or Parent
class for more than 1 class





Mes A

{

}

Class B: public A

{

}

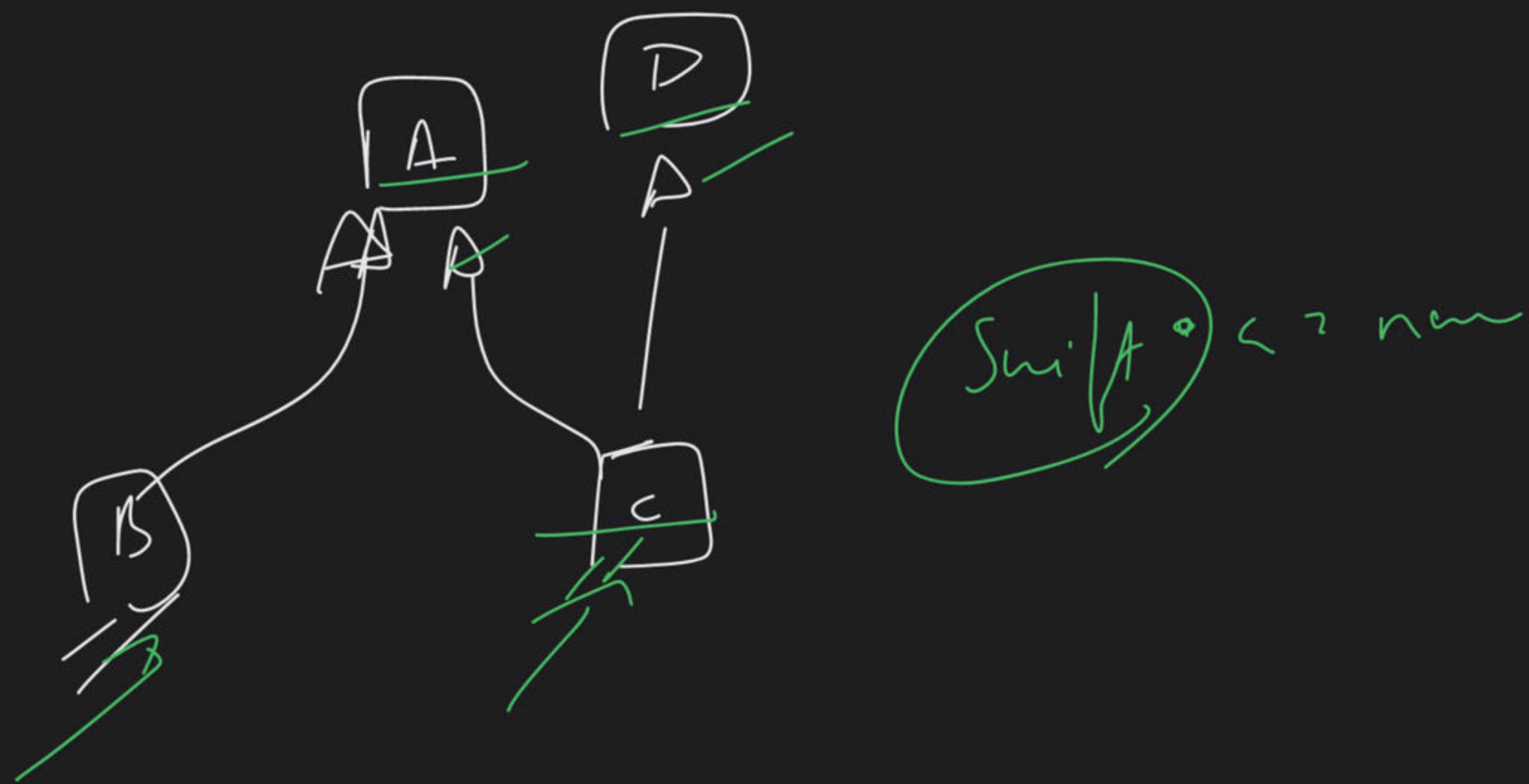
Class C: public A

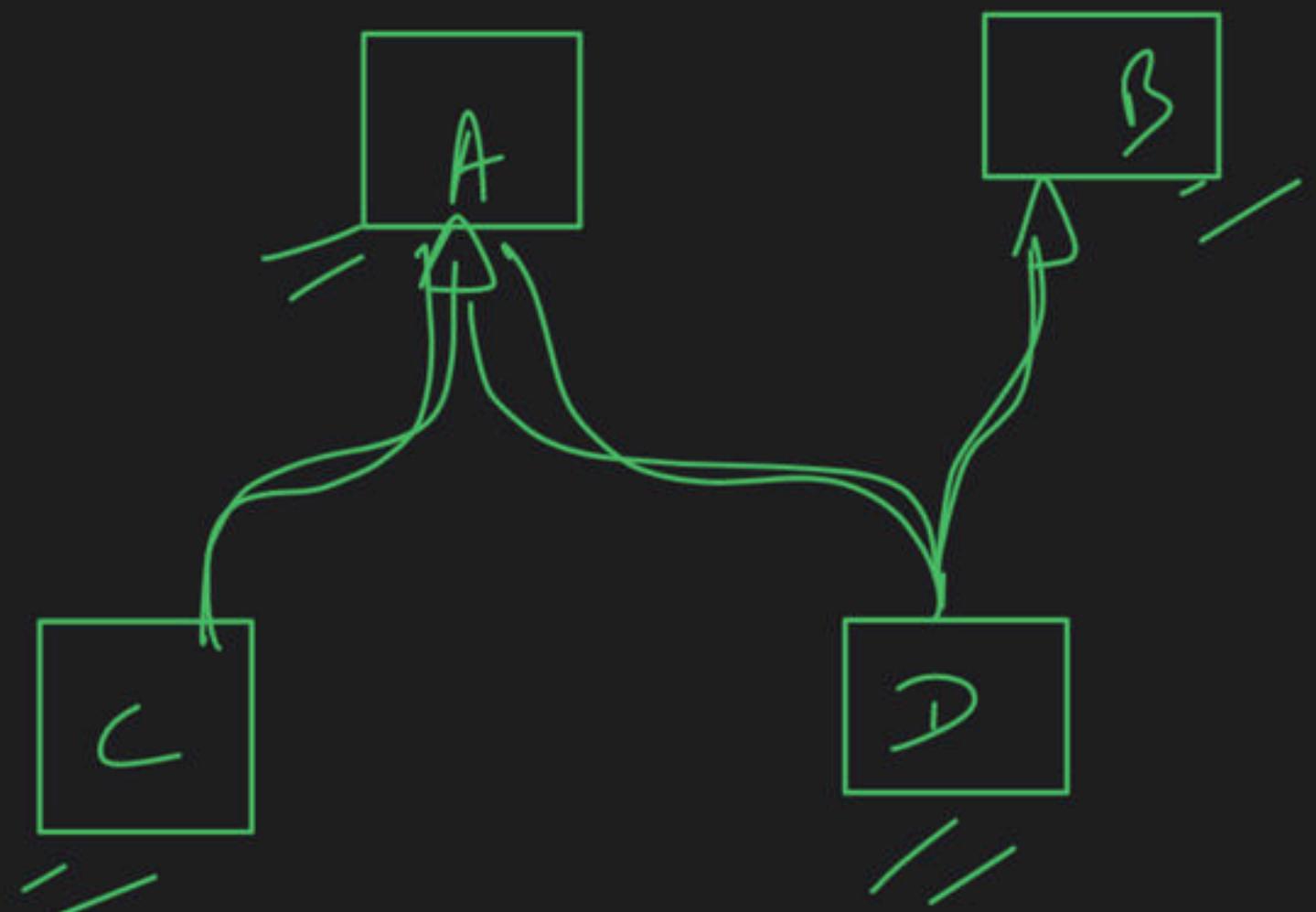
{

}

Hybrid
+
/

Inheritance → Combination of more than
1 type of inheritance





class D; public A, public B

{
};

class C : public A

{
};

class A
{
};

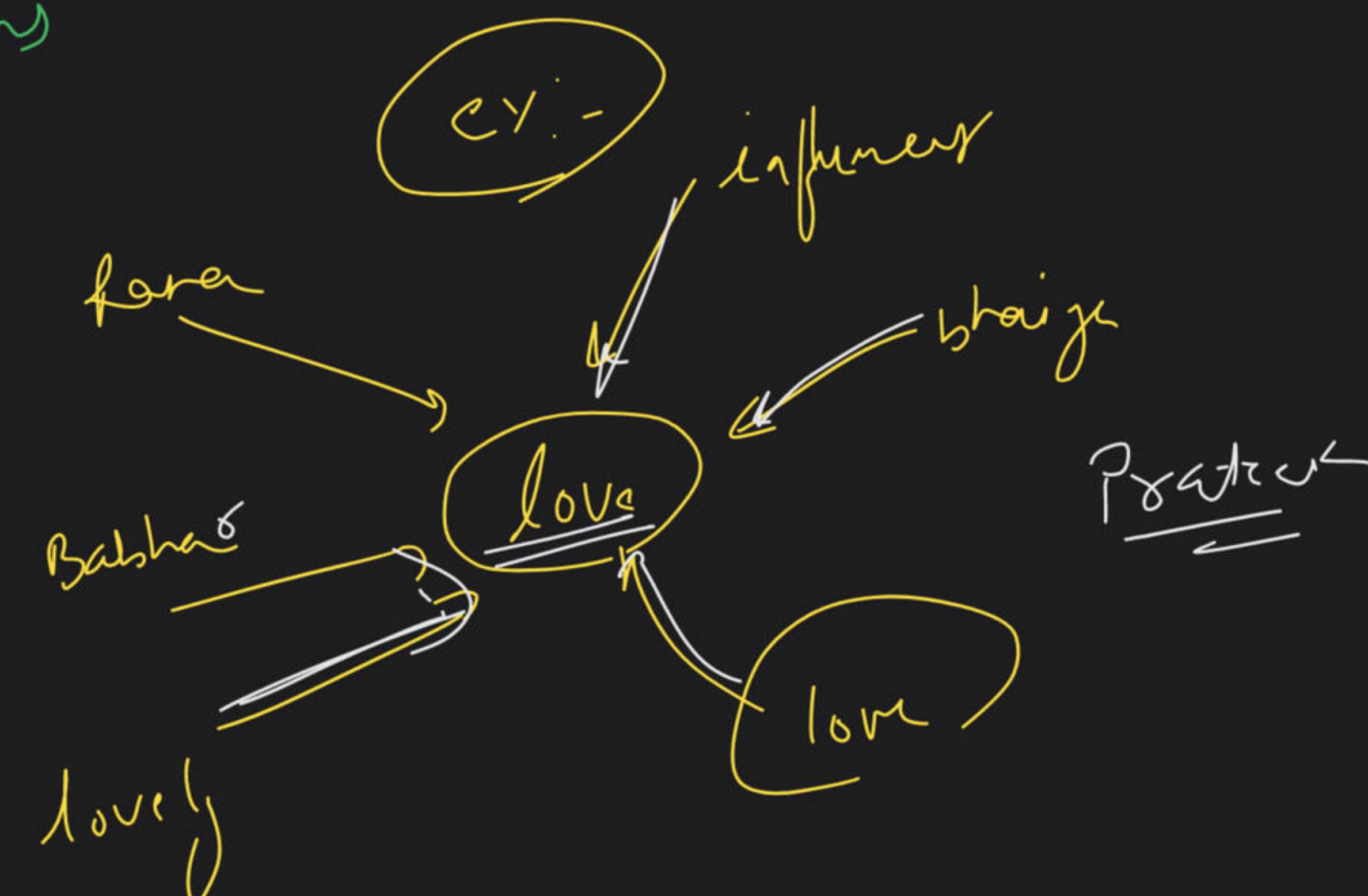
class B
{
};

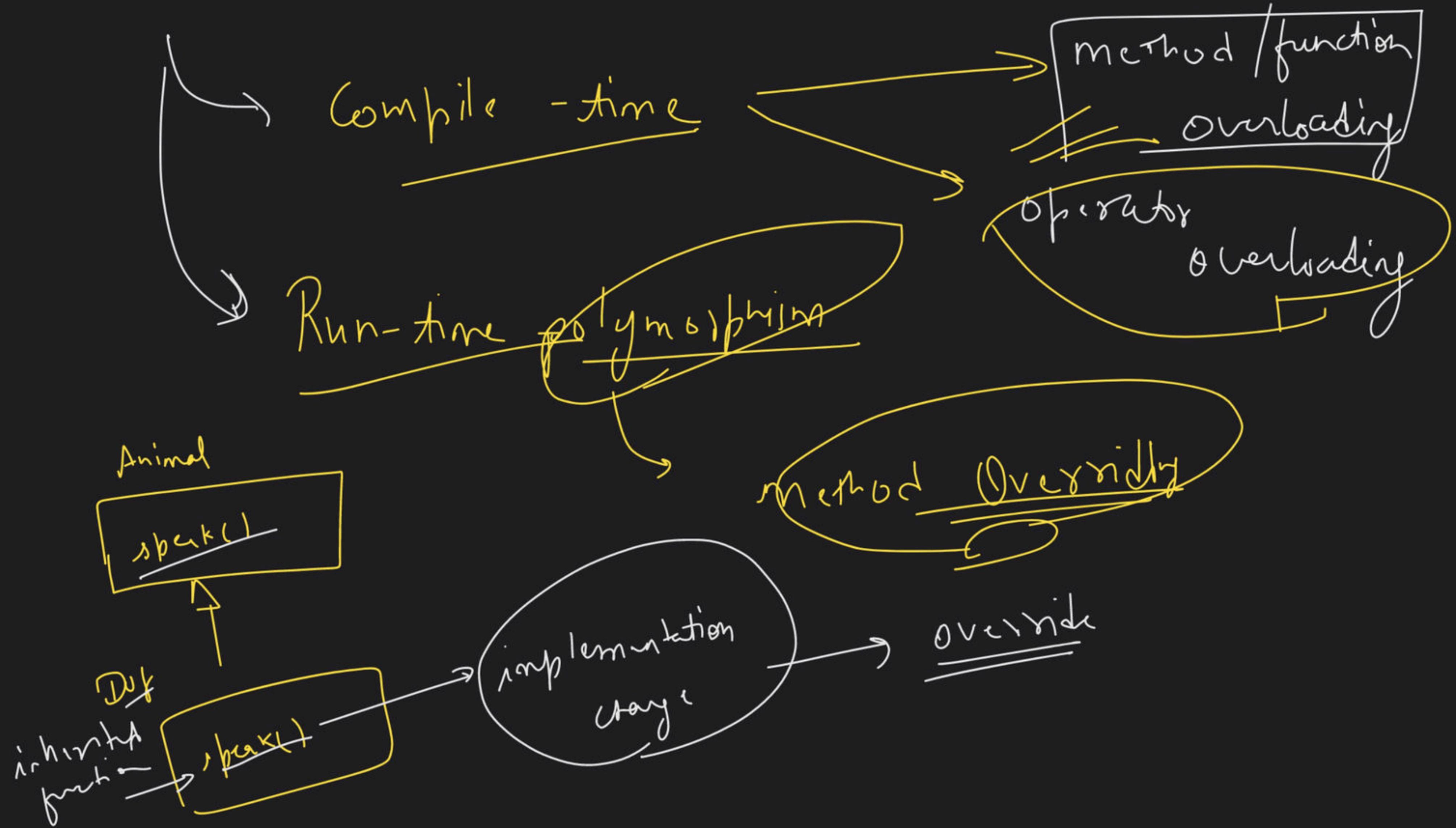
2 min Break;

Poly~~morphism~~ :-

many forms

existing in many forms





→ method overloading

Math

→ add (a, b)

function
same name → 2 or more
exist & ~~not~~ → Overloading



Operator Overloading

* → multiply

⊕ → addition

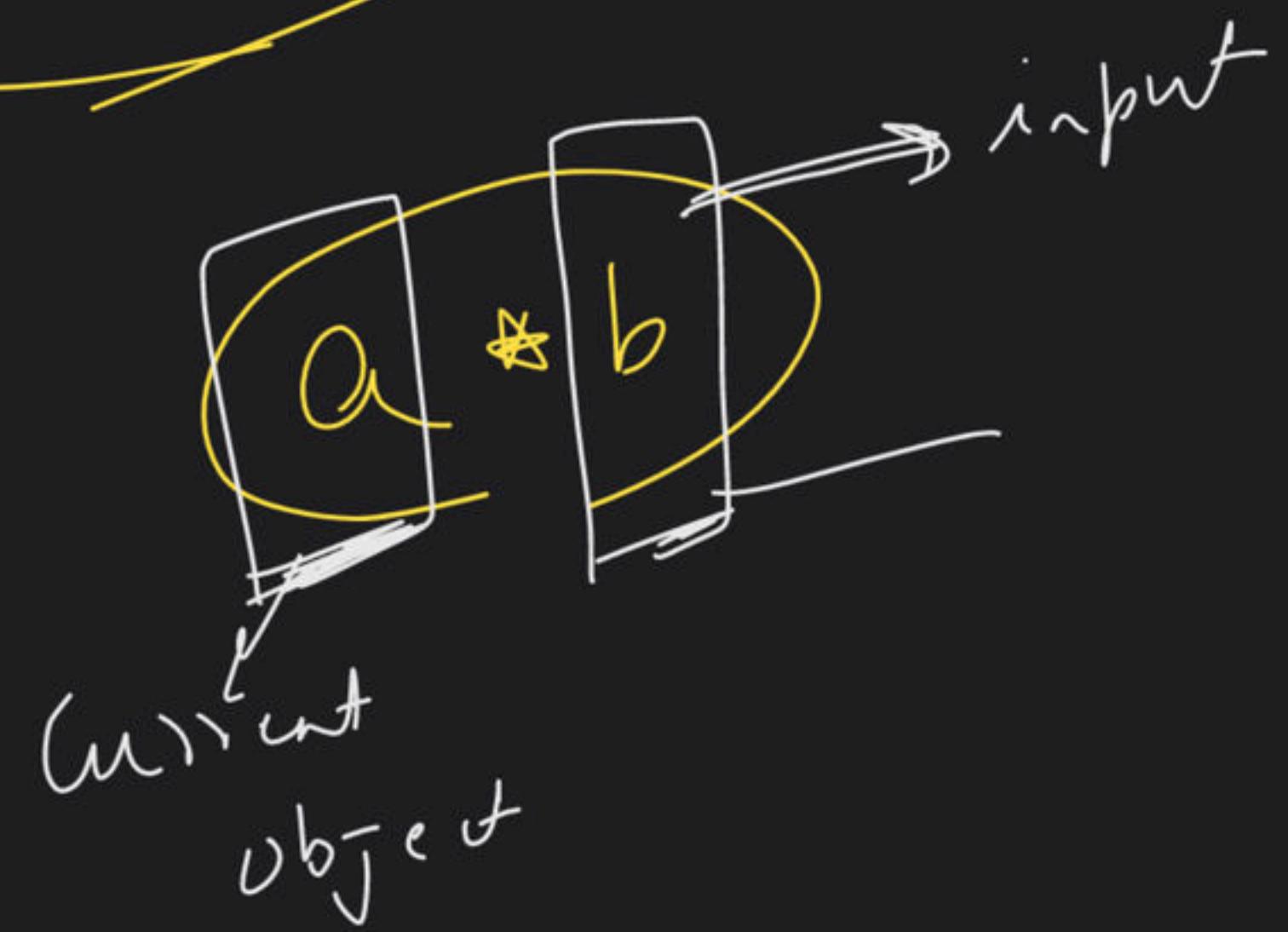
→ direct
addition

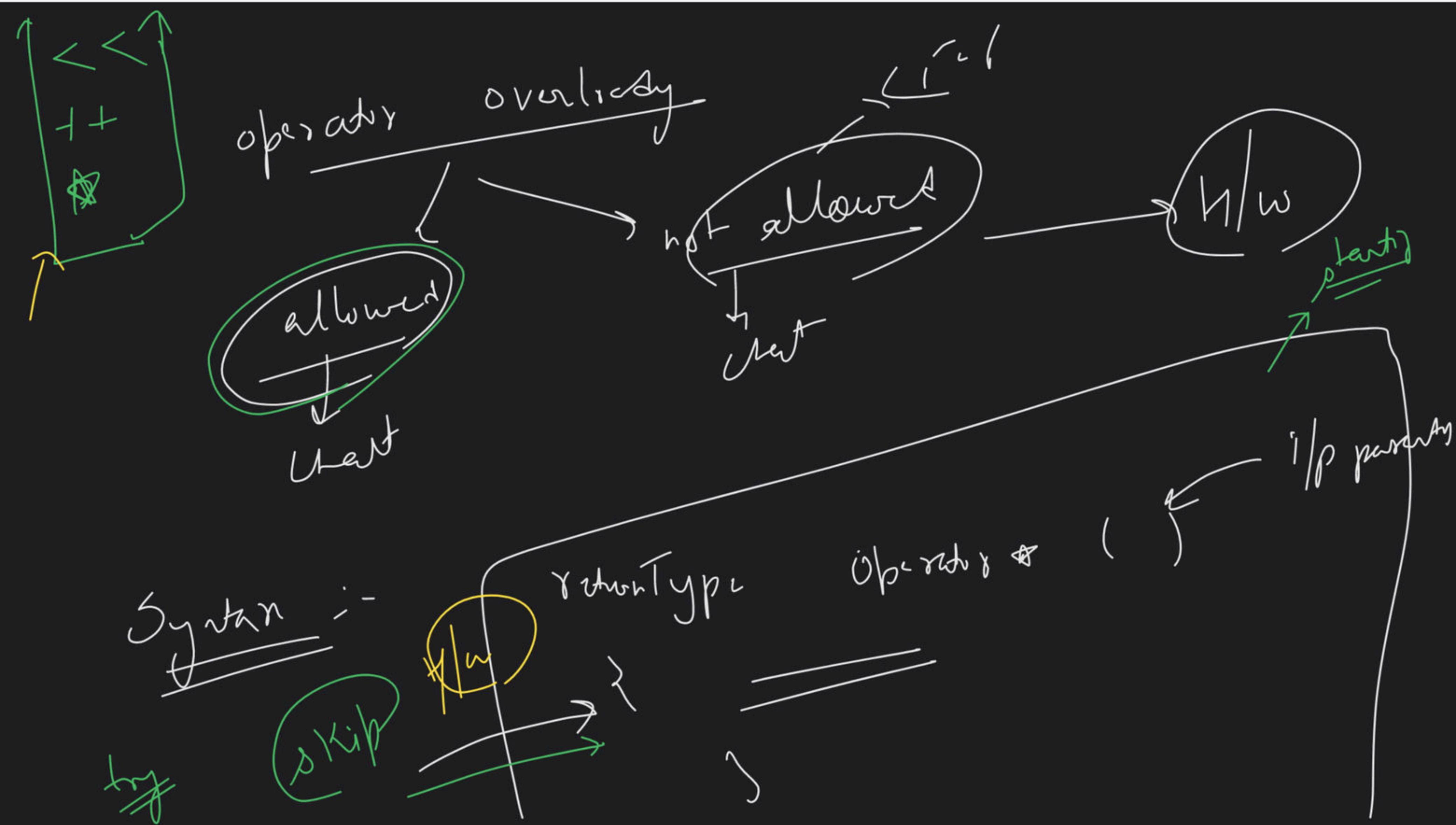
→ multiply

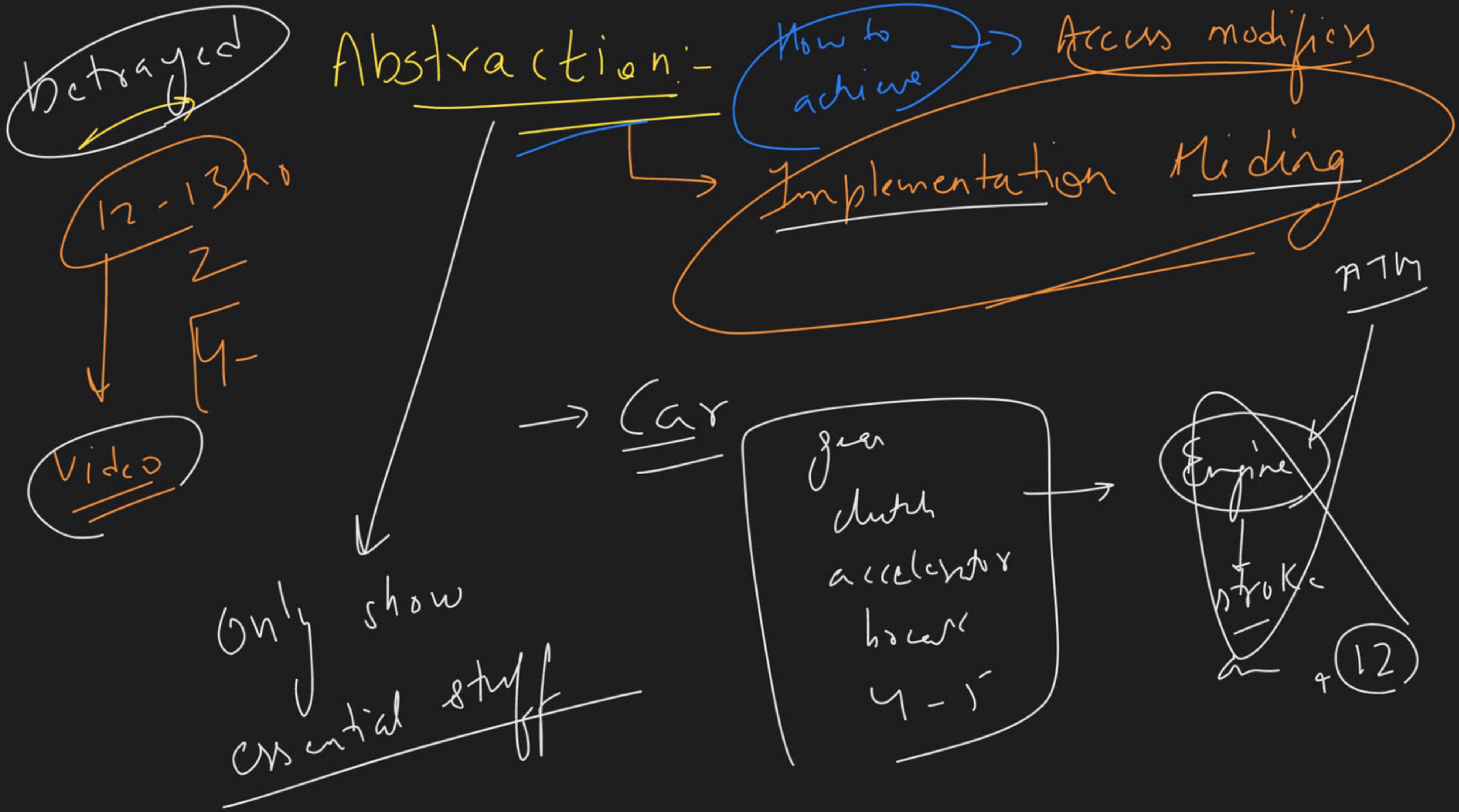


-

Binary operator







→ Email

Adv -
Security?

