

OOPS: Study in class →

- ~~1~~ classes and objects
- ~~2~~ Data member
- ~~3~~ member function
- ~~4~~ Access Modifier
- ~~5~~ constructor

~~6~~ Static Keyword

~~7~~ String[] arrs

~~8~~ this keyword

~~9~~ classes [Default package] . LinkedList Stack

~~10~~ Interface

Learn . (for interview)

Game with OOPS

① Polymorphism → Runtime
→ compile time

② Encapsulation

③ Abstraction

④ Multithreading → Synchronization

⑤ Inheritance → + Interface

⑥ Super

⑦ Constructor . what destructor ? → C++

⇒ ⑧ this

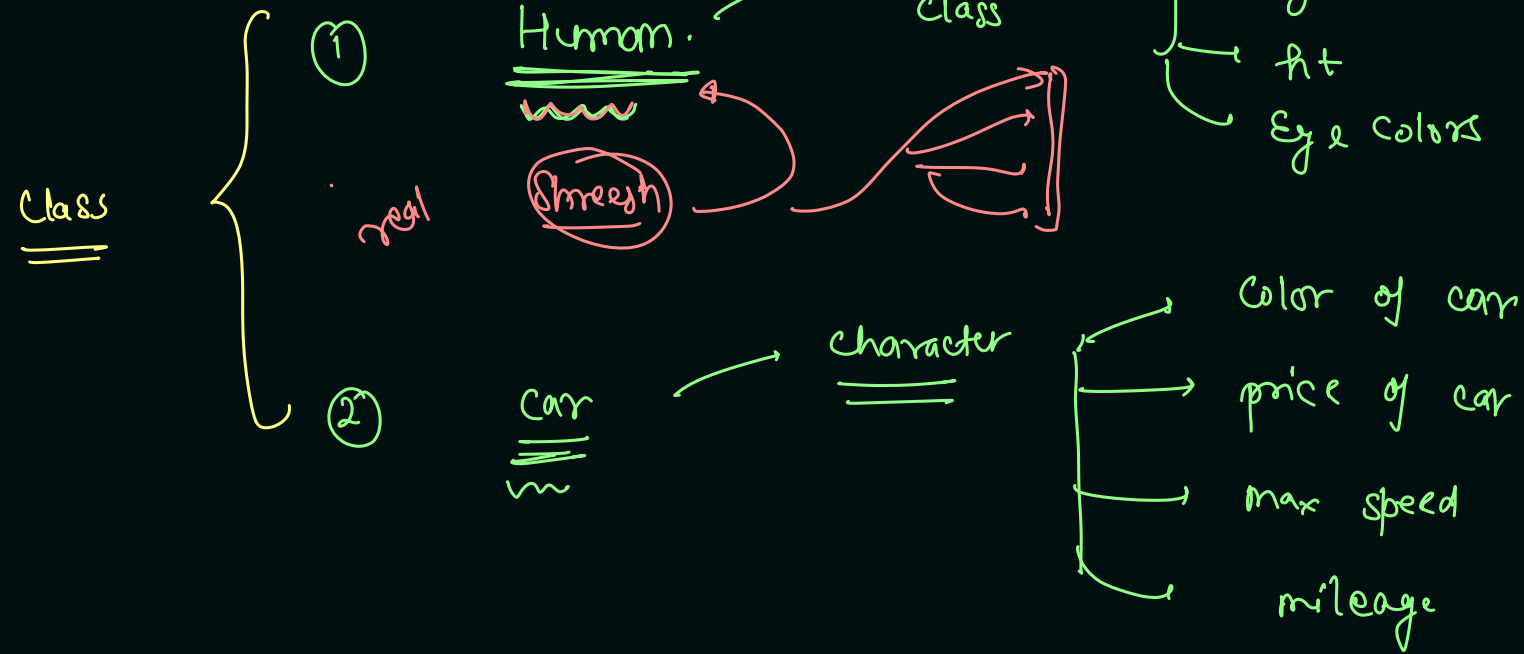
⑨ Exception handling .

⑩ Interface



Classes and objects:

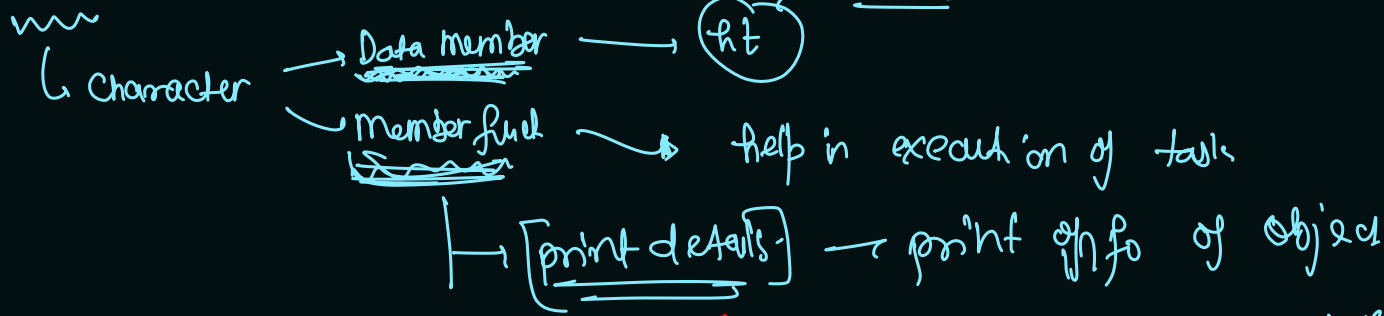
↳ Blue print of real world Entity.



Definition of
Classes & objects:

Object → A real world entity that belongs to a particular class.

Data Member, Member function;



Access Modifier:

Class →

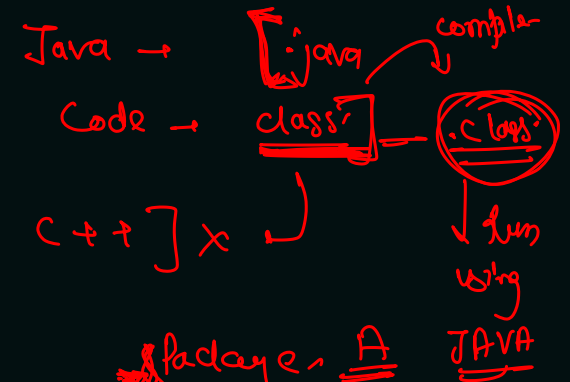
Subclass

Inheritance

Reach of data member & member function → Accessibility

related class can be private, data member, member function Package B

<u>Access</u>	default	private	protected	<u>public</u>
Same Class	Yes	Yes	Yes	Yes ✓
Same package subclass	Yes	No	Yes	Yes ✓
Same package non-subclass	Yes	No	Yes	Yes ✓
Different package subclass	No	No	Yes	Yes ✓
Different package non-subclass	No	No	No	Yes ✓



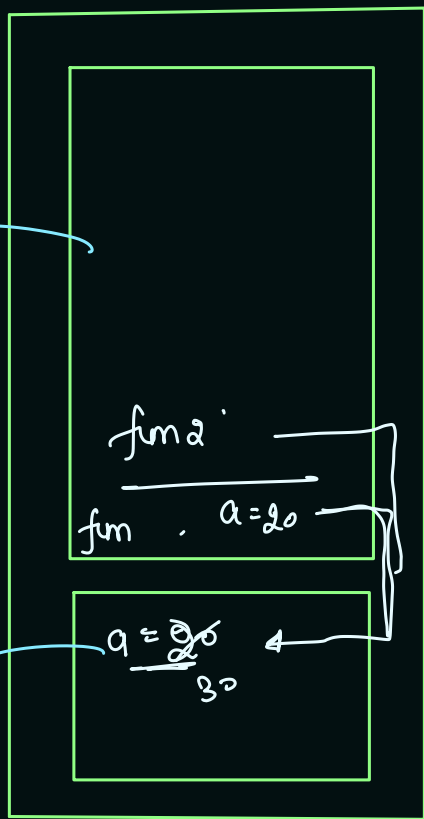
File A
File B
File C

can be a class can be interface

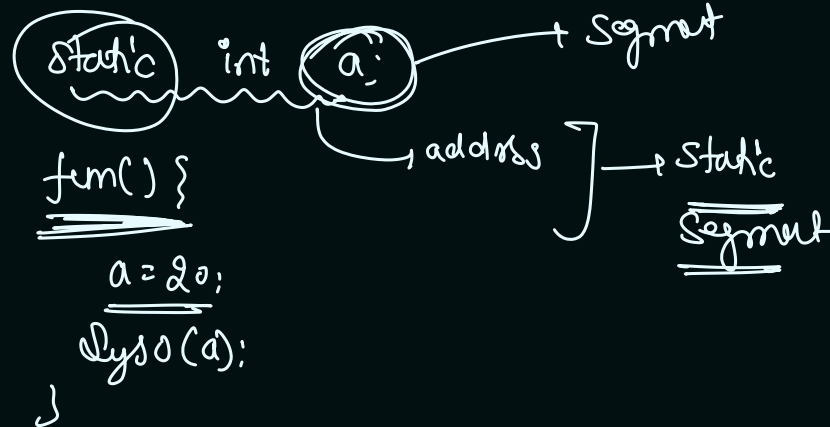
Static

Stack Memory

Static Segment



may be or
may not be
static

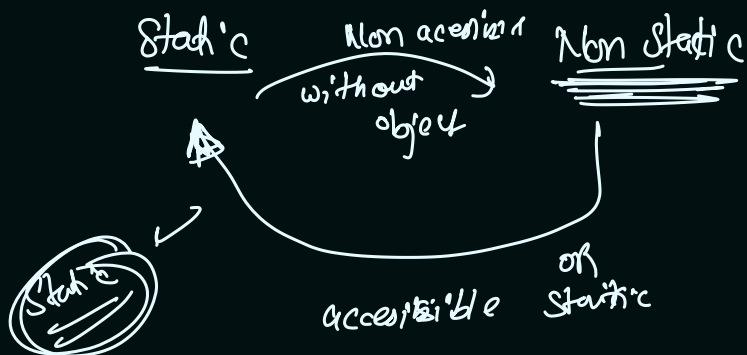


```
fun2() {  
    a=30;  
    sys0(a);  
}
```

Static - class
| - method
| - variable

Method

Body of method required some kind of memory.



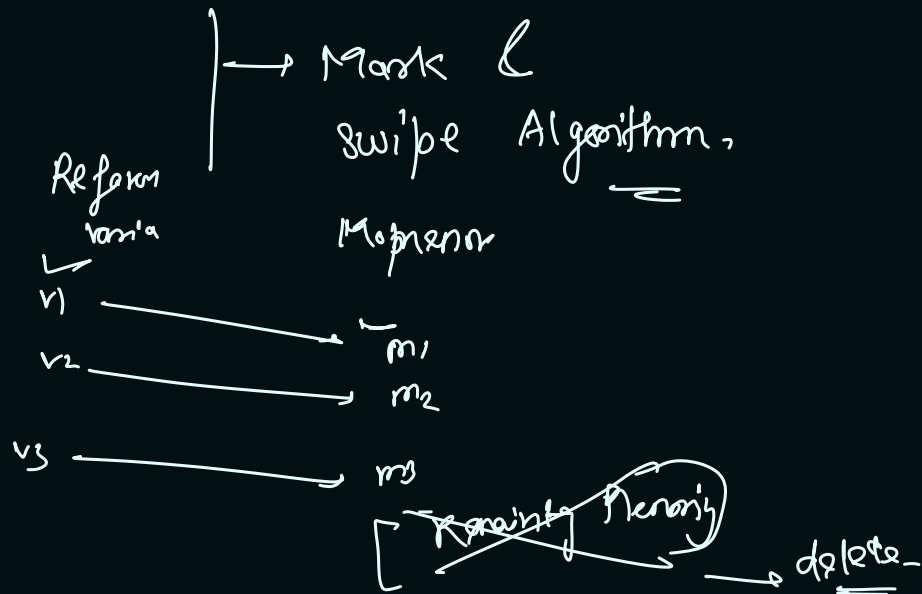
Constructor : ~~1~~ default] = No args in C++
~~2~~ parameterised] = Const
3 copy constructor]

destructor] → Not in JAVA

→ Rather than destructor, JAVA has garbage collector -

if Explicitly no constructor is written, then JVM provide default constructor to the class,

Garbage collector → Random line of garbage collector



More than one constructor can be written in class.

this keyword:-

this → self Referencing pointer.

this] → always pass with object call
↳ member function.

void fun() {

this ⇒

}

d1.fun();

user defined class

class C1	↳ extend object class
↳ notify()	By default
↳ hashCode()	done by JVM
↳ toString()	toString()
↳ equals()	

Interface :- Contract] → Sign class

~~Go func~~ Interface Comparable {
[p. int compareTo(Eo) }
] ————— No function Body.
}

class Car implements Comparable { Car } }

Class body

[compareTo()]

class → External
Interface → Implementation

Learning - L1
L2 → Question Bank

L
Trees
Bits
AXL
Backtracking

Preparation
Complete.

4 yrs. → 1 making
All topic in DS
Company Specific
Revision
during
Company test
or
Interview

Level 1 & Level 2

Interview Experience

Amazon → LL & trees
Microsoft → Graph & DP
Google → Graph & DP
Bits & tree