

Tuesday, 20 February 2024 8:36 PM

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↳ Object Oriented Programming

Object Oriented Programming

- Encapsulation
- Abstraction
- Inheritance
- Polymorphism

Consider everything as an object

Tama?

↳ $C, C++ : \text{exe} \rightarrow C++$

↳ Platform dependent

↳ JVM ✓

• jmax

Byte code

↳ .class ⇒ Machine code

- ↳ platform independence

Client

JVM ✓

Compiler X

L70 ✓

5

Reiniger

✓

✓

If C, why did we need C++ or Java?

Procedural Language

```
int cancel = 1;
int age = 0;
int cd = 0;
```

```
int age = 11
```

$$|a| \cdot |b| =$$

↳ Everything is a function

Car {


namc

age.

2. cc.

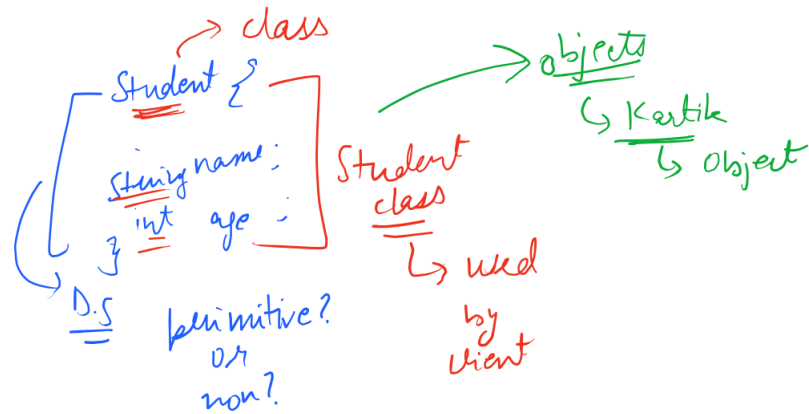
10

Interact with
real life → fun
Student }



 ↗ object non =

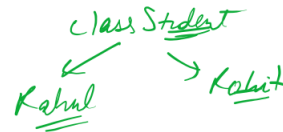
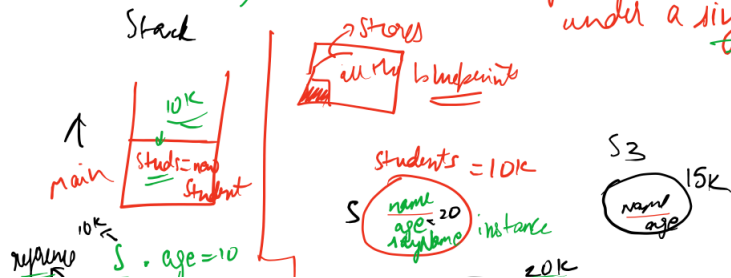
$\frac{1}{2}$ in molho;
 same story " $\frac{1}{2}$ "
 3
 51.24011
 52.2011
 13



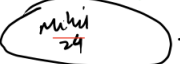
Class is a blueprint which defines the object

- data markers → properties
- data function → behaviour

Encapsulation → wrapping up relevant info (numbers, functions) under a single unit → class



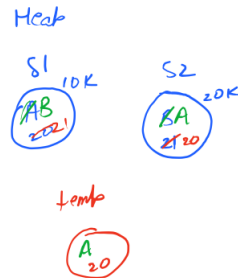
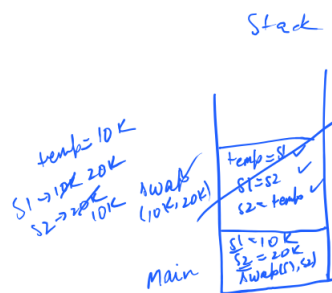
to s2 = new Student();
 ↳ s2.name = Mihir
 s2.age = 24
 s3 = new Student
 ↳ Reference to s2

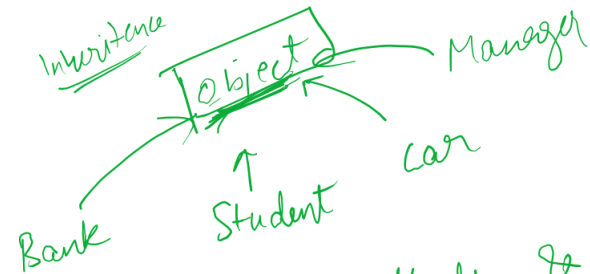
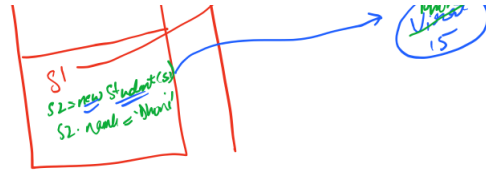
s2  → Instance

new A/B/C X Y Z

↓
 this → used to bind the properties to current object
 this.age;
 ↳ keyword which is used to point to a particular memory address.

Student s = new Student();
 ↓
 constructor



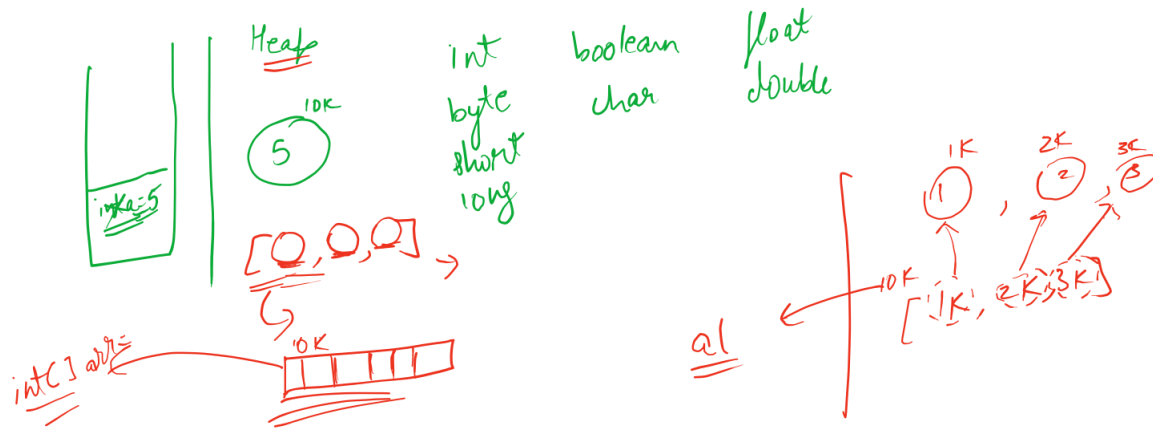


Methods & Functions

- ↳ Functions that belong to a class
- ↳ oops concept
- ↳ associated with class
- ↳ Any set of instruction

1. 1. learn → ... to maintain

Wrapper -- class to wrap
primitive data-type



Object / String → null
 int → 0
 boolean → false

Constructor returns
 the instance of the
 object