>> builder Dergn Partiers __ Creational

=> Imagine a class with with the of outributes.

class Student &

- voure

-age

- bsb

-barch

- 1d

- und Name -> cart be nell

- grad year - court be nell (<= dodd)

- me:1

- grandrunder

Creating a student object,

Validation » they should have attent I you of exp. try should have some graduation year validate the Shudent object that got created dopet creation needs both memory and processing Somehow validate the outributes before the object 95 created. makes the code more rodolde and inhibitive major things immutable

Journatorole

Journatorole

Once the object is created, it can be changed nothing

grunnfalde

clan Car &

privak final Put noofwheele;

pulser car (fut noguneuls) }

this noquireels = no of wheels;

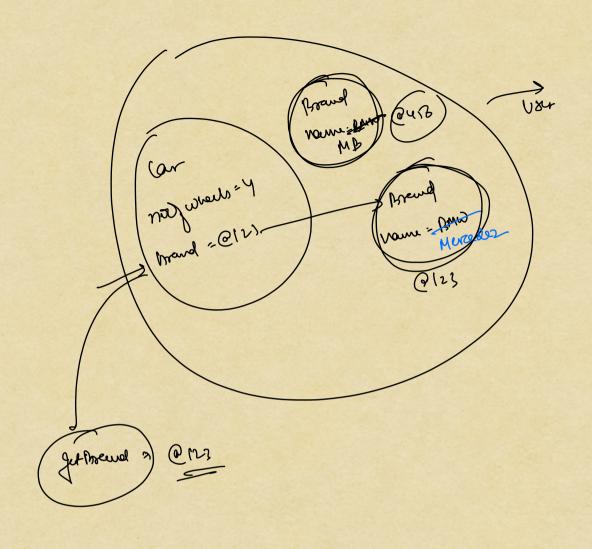
3

pulsic Put getnodaveels() }

setem nogwheels',

5

non-funnfalle Graf Clan Car & privak final Put noofwheele; private final breard (broard;) public Car (Fut nogwheels, Brand brand) } this no pubels = no of wheels; this broand : broand; public Put getwo functions setur noofwheels', public broad getbrand () } deep whit of preand som dep copy clan Board & private String vame; quests getter



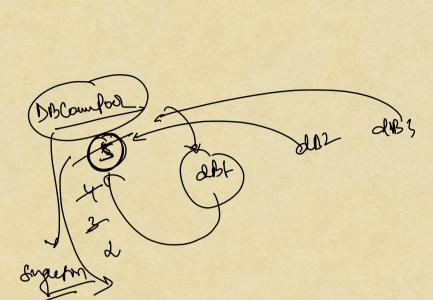
clars bile &

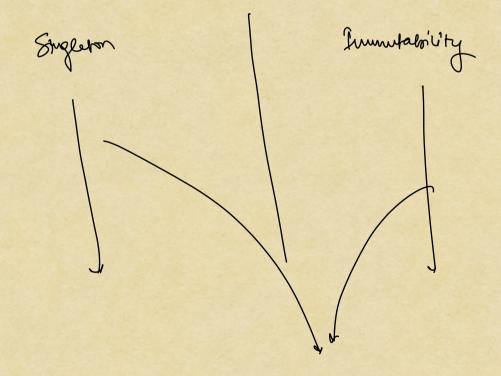
private bile Bile Pustance;

private bilec) &

queer scaler enfinesire',

pulso'c static Poile gerfustance() {





=> Volidations +

- 1) no shident should have grad year > 2023
- 17) phone number must be valid
- 111) age >= 18
- W) univ. vome should not be null.
- 4 No Shodent object should get created until these validations one done.

setters

class Student &

- vame

-age - bib

- book

- un Name

- grad year

- phone Number

- me:1

3

-> validations for parameterized constructor:

- · mensy confuring code
- · multiple (duplicate validation lode sucase of constructor overloading
- · object created the moment we enter the constructor.

→ valldations Pu Setter methods :

- · Cant use felter wethods whil Object 13 craked.
- · Object semalus in heap if validation fails.
- · mercy confusing code

Mutran

I/P values on a hardwap

vam -

of ____

- Home

Validate (Harmon } throw on exception Builder } Clars - un Name - grad year - meil -> Create the builder object -> use this Org. to create a strudent obj