Agenda
-> Acces Modifiers
-> Constructors
refault Copy Manual
7 Shallow (VS) Deep Copy 7 Pars by value (VS) Pars by Reference.
CESS MODIFIERS.

A C

- D'Aubric: Anyone can access from anywhere
- 1) Private: Can only be accessed within the class-
- 3 Protected: Can be accounted nuithin the package & Child class ontside the package.

 (4) refault: Can be accounted nuithin the package only.

Class Student (String name; int age; double Pep; String battle,

Memory Student 8t = www Student(); Pefault

Student(); looking like a fun.

Student vohau = new Student();

refault Constructor.

Iy me don't weate our our constructor in a Class, a défault constructor il Provided.

Fréquet constructor creates a new object es the class to their default values.

Class Student (String name; int age; double Pep; String batter; Special => function. Student () L Automatically generaled name = nuli; E by JAVA but not Visible to ms. age = 0 PSP = 0.0 batch = null;

- 7 Default Constructor
- 1) No return type
- 2) Constructor name buil be same as ef the llass name.
- 3) Initializes the class atto with default values
- 4) fublic.

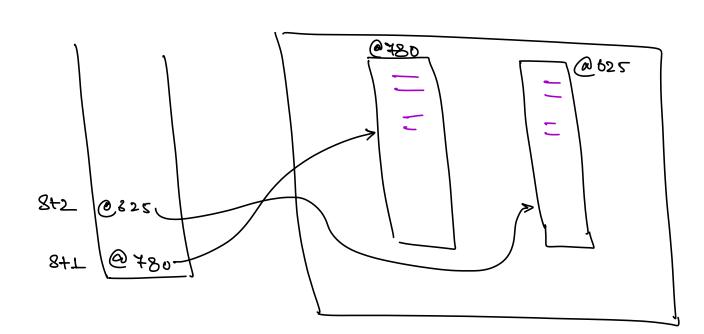
```
# CUSTOM CONSTRUCTORS.
        Student St = new Student ():
         St. name = " Nikhi!"
         84. PSD = 85.0
        St. batch = 4 MWF 9PM";
   Student Bt = new Student ("Nikhil", 85.0, "MWF 9PM",
   Class Student (
         int age;
         double pep;
         Student (String name, age, PSP, batch) 1
          of this name = name;
Cureur Object of the clare.
             this, age = age;
this, PSP = PSP;
             this, battle = battle;
```

+ How Custom Constructor mosks
1) It initializes the Object miter the default values
2) Starts executing future lines to set the attribute values
COPY CONSTRUCTOR.
7 We already have an object of Student.
-> We want to create a new Object of Student
The already have an object of student. That has exact same values of the existing object.
5+1
name: "Snivern" age: 25
Student 8+1 = new 8+whent ();
3+1 @ 781

#

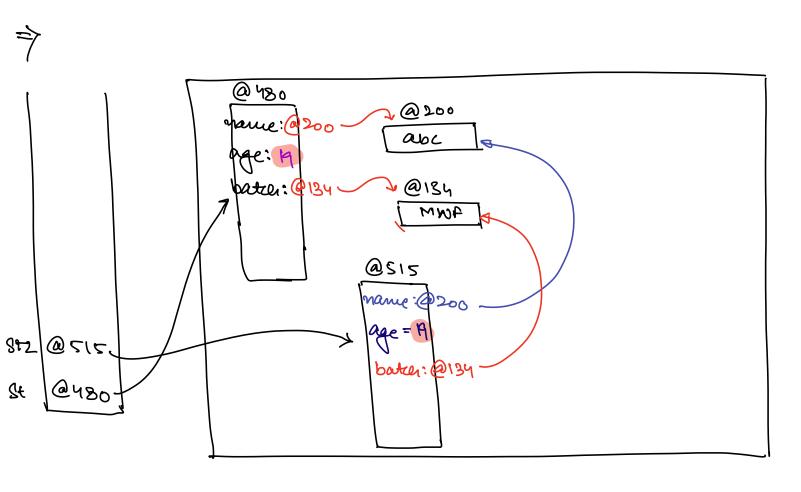
Student 8+2 = new Student ();

8+2. name = 8+1. name;



Class Student d String name, int age; double pep; String batter; Student (Studens 8+) (this name = st. name; this age = Stage; <u>ਤ</u> 3 Student (872) = new Student (St 1); @620 @480 8t2 @620 < @480 Sti

JAVA MEMORY. -> Princitive: Simple [int/bool/double] -> Non Princitive: Object [String | Objects of any class]. Student St = new Student(); Class Student of St. name = "Deepale" String name, => Non primitive St.orge = 25; int age;] Primitive Etring batter; => Non primitive Student (Student 8+) (this name = st. name; this age = Stage; SA3H @480 2400 Deepak name: @400 -> age: 25 @500 batel: \$500 MWf enail: Propo @200 abie-Sf



=> SHALLOW COPY.

> PEED COPY.

Class Street (

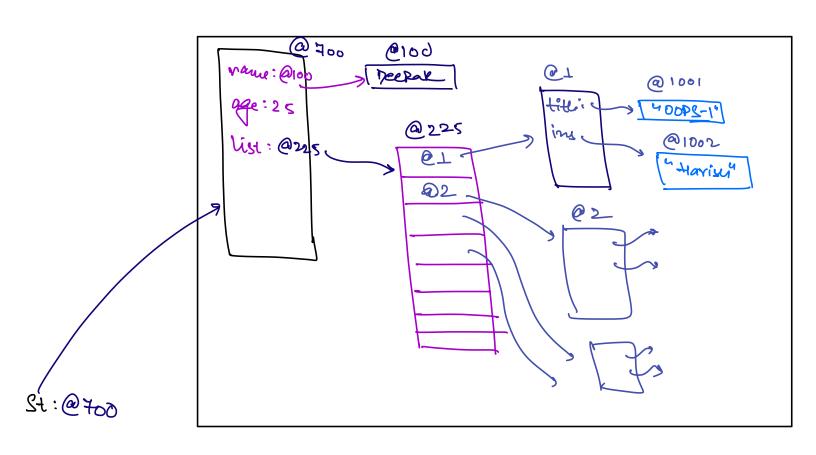
List & Lecture > Lectures

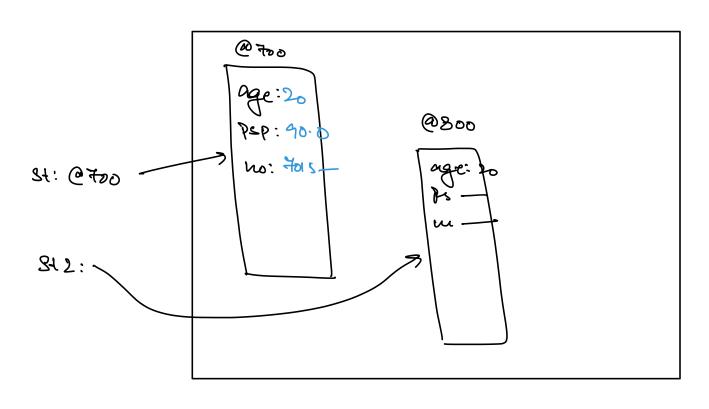
name

age

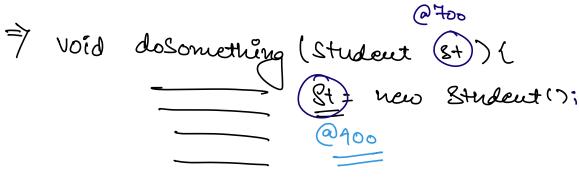
Lecture (
title
Prestructor
3

> Student St = new Student();





Student 8+2 = new Student (S+)



<u>ع</u>

=> Plass By Value.: Passing Object address inside the fun. Pestructor.

Testroys the Object.

In Java, it is called automatically by GC

to destroy unreferenced object.