Today Agenda : Default

1). Constructores + Manual / Ceeston

2). Destructores. Deep copy vs Shallow copy. Introduction to Inheritance class :- Blueprint of an idea / entirtes this class. Object 3- Real Instance Student :- (a) Student st = new steedernt (); Data type Saviable keyword in java name use to create

Student st = new student ()
Student st = new student ()

Student & Automatically generled String name Student () { int age name = null int holl age = 0 double psp holl = 0 psp = 0.0 Steeing univ Noeme Univ Name = null -> Défault Conspenders ?if you don't create your own constructor a défault constructor will be The defaut constervetor sets the Vælue of each ættsrebrete to defæeelt Value of their docta type -> Manuel Constructors :-Object with 1) it intealises the

defeut value of that data-types. Evns the code inside the constructor. Copy Constructors 3we already have om Object of student. ule want to buente a new Object nuith exact same Of Student Value as elders object. Vone an Object Name: Umang Name: Omany 5+2 > Roll: 150 age: 25 Roll: 150 -(a) <u>(55</u> age: 25 (a) 155 @ 121

Student { age new - (); Private mane? Vriv Name holl Student ( student st) & This. age = st. age

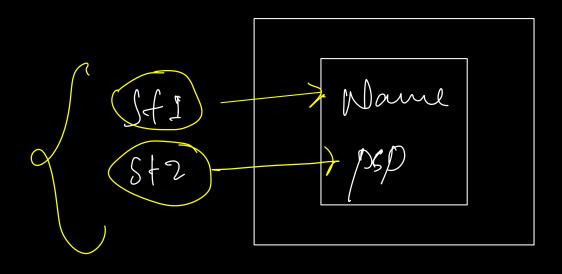
this. name = st. name Client & student St. Student st2 = new student

Pn n

X of St2. name = St1. name St2. holl = St1. holl

Student St } = new student (st)

## Shallow Copy.



Student st2 = (new) student (st1)

Deep copy,

S+2 S+1 Confénerces after the break Trin

=> Shallow lopy: -

whenever I have

Created a new object but behind
the scenes the new object still
refers to a few attirubutes
of old object.

New and Old object still shore some reference

Deep lopy o-

No shaved deference

## In java, Deep copy is not even practically possible

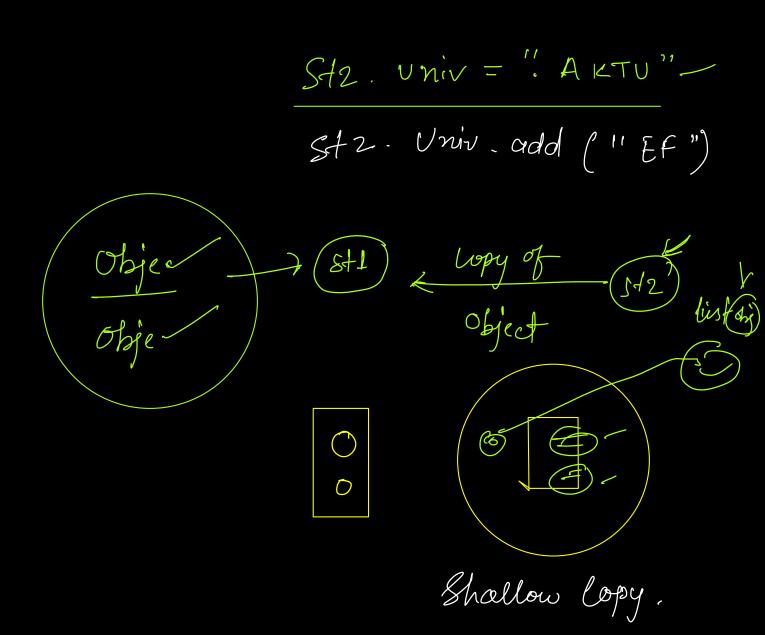
Types of data 4 where are they stored in memory?

Primifères types ( int / double / float)

Exist as variable which Store the values directly Object (string)

Object are stored memory variable are store the adress of the

(a) 18L Variable AK TU"  $int \alpha = 10$ Umang Name (a, 121 Name: @ 121 double psp = 98 @ 12.5 age: 20 age: 20 Univ: @ 192 V niv : 2 152 Student st1 = @ 1601 11 ABC" (a) 1601 (a,1205 Student St2: (a) 1705 a 1601



Object -> obj-> objRecursive

. Destructores o -

Ly prosite of lonstructors

Ly will be automatically called if

Object is no longer needed to

feel up the space that is

being taken by the Object.

Pass by value us Pass by Ref?

Pass by Ref

fill coffee ( ) {

Pass by Value

Aid coffee (A) S

=

Java is pass by Value

do Somthing [student (st)]

St. name = "Vivek"

St) = new Student (); x

Client S (de somthing (841))

y virek

