Agenda:
- Constructors
- Lopy Constructors
- Deep copy vs Inallow copy
- Static
Constructors:
Mass - Blueprint
Object - Instantiate a class.
a new keyword to assign
Student s = new Studen(()); memore
Mass datatype reference class type
variable (address)
function

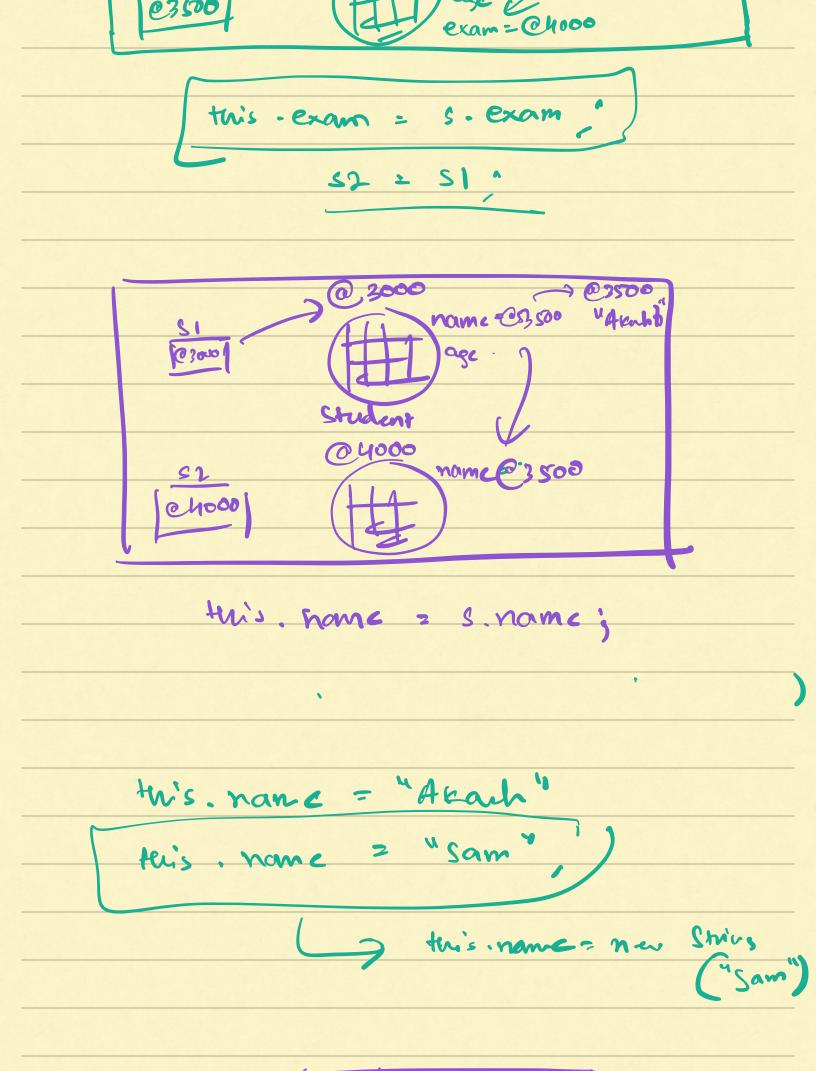
Constructor is a function which instantiates and initialises an object. 1. Default Constructor. studens { public Student () { String mane, Int age nome : froat psp. age : 0; psp > 0.0; 2. Manual Constructors - Unparameterised Parameterised. no parameters public Student () } name = " Akorh "; oge > 29, psp = 5.0;

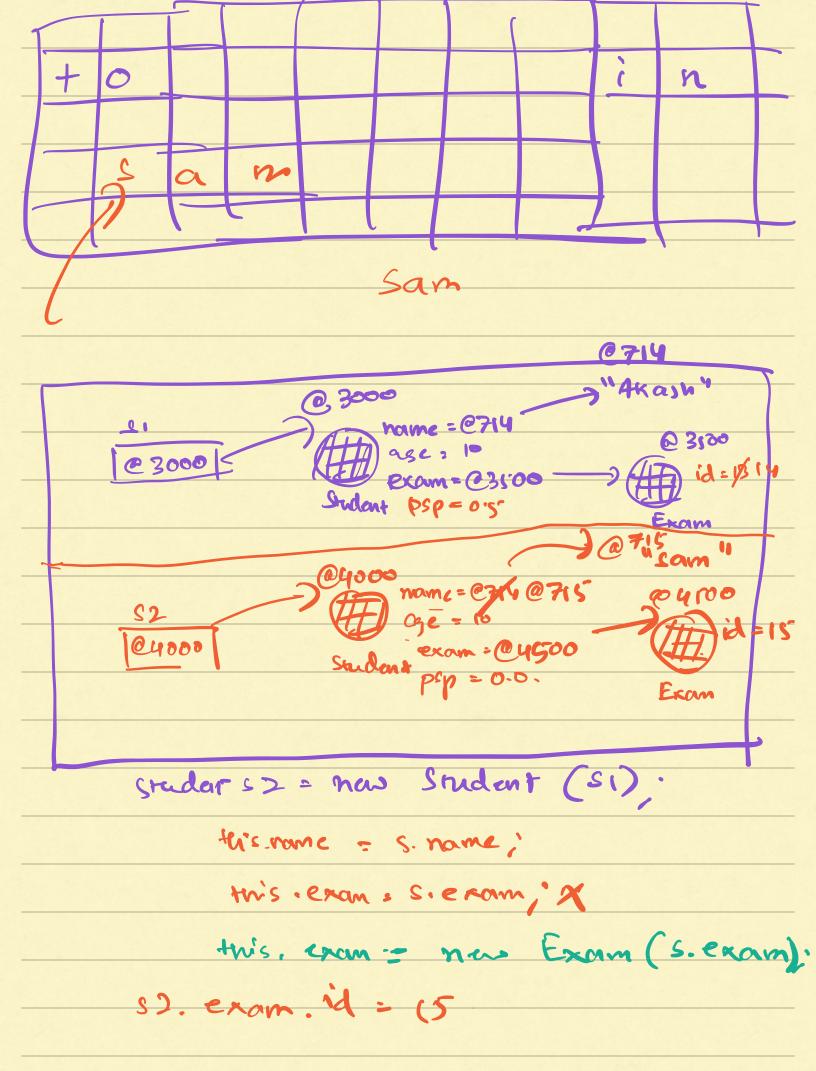
public Student (String name, int age) }
tinis. name : name
tuis age 2 orge,
3 +ws. psp = 0.0
S. prini C); twis
1 Defult compositions are males
1. Défault constructors are only
provided if no manual constructors
are written
2. Custom Constructors does:
a. initialises tre variables with
default values at the Start.
b. The update the variables
with values provided by
parameters / user.

Lopy constructors.
Student ?
Sning mame;
int age
Al-at psp;
5 (Student SI: new Student().
st name = "Akerh"
Si. age =
Student S2 = S1;
c2. name = "Sam",
51 @ 2000
(200) (H) m-A
92 @ 3000
ezooo hamenu aje 20

Way of copy:
Student 82 = men Student ();
s2. name 2 sl. name,
c2. age 2 s1. age;
52. psp = Sl. psp;
Problems:
1. Too much manual code/ repatchion
2. Private variables con ² Le accemed
outsi de.
Class Student &
Sning mame;
ins age
Aloat psp;) other constructors
"copy constructor
public Student (Student S) §
Huis. name ? S. name,
tric. psp = s. psp;
tu:5. ac = 5. age,

}
Student SI: new Student().
st. name = "Akerh"
Sl. age =
Student S2 = new Student (S1),
Shallow copy.
Studen ?
String name,
Exam exam,
Student 52 = new Student (SI);
Stullar 2000 Exam @ 4000
(2000) (24) Oge (24000)
Studen + C3500





52. name = "Sam". La sa. name = new String ("Sam"). 5 mins -> 8:52 AM. Pass by reference / less by value void fun (int 2) & $\chi = \chi + 10;$ $3 = \chi + 10;$ $3 = \chi + 10;$ int x = 5 / fun(2); sout (2), -> fun (Student S) } s.age += 10.

