Programming Paradigm:

Style or Standard way of writing a program

Without programming paradigm:

Hard to read & understand

Hard to test and debug

Difficult to maintain etc.

res stanctuard

opps is one such programming paradigm followed by languagu: Java, Python, C++, C#, Js, Ruby etc.

Q. Maintain marks and namy of students.

Marri: [Bob, Alice, charlie]
Marks: [92, 82, 87]

→ Pata Association

→ Scalability

Class: In programming, a class is a blueprint for creating objects.

It defines what attributes (properties) and methods (behaviours) the objects created from it will have.

Object: It's a red, tangible instance of class.

class Book

String title String author

land () < ("Reading")

void flip Page (1 <

System. out. print ("Flipping page")

public class main \ public static void main () \ | 1 court object in memory Book D1 = new Book () D1. title = "Alice in wonder" | 51. author = "Lewis (arol"

stach

Tok

Title: Alia

In aur

author:

L. cara

L. cara

class Book:

tielc = " "

author = ""

عط مدمط ددیل .

return "Rading"

python-bl = Book ()

python-bl. xitec = "XYZ"

Constructor

ncw Book ()

Method which created object of the class.

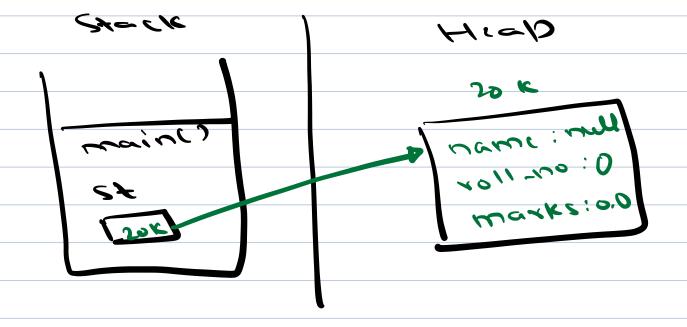
Default Constructor

when you don't create your own

constructor, a default constructor is

created.

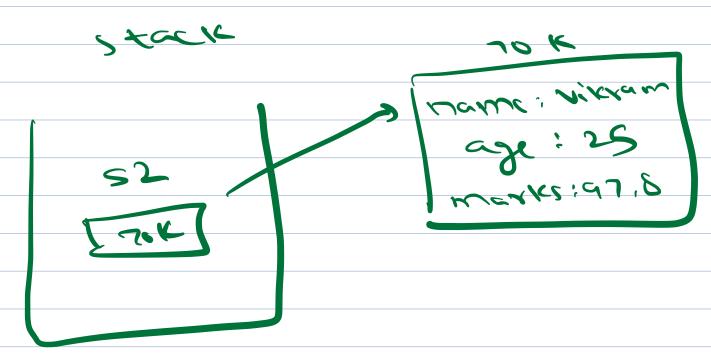
- 1) create object 1) initializes values of attainments in object class Student < String name double marks 11 How default constructor student() < mami = null age = 0 maxes = 0.0
 - Student St = new Studente)



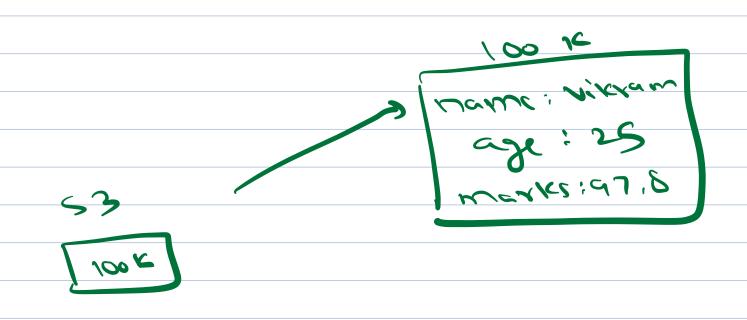
1) Constructor name is same as	•
class name	
(2) If we create our our constru	COX
no défault constructor is caco	4
3 Défault constructor docs not	
take any arguments	
9 Its public i.e. can accessed	100m
any where.	
Manual Constructor	
1 Non-Parametrized constructor	
class Student <	
String name	
int age	
double marks	
Student () <	
name = "Vikram"	
age = 25 maxxs = a7.8	
maxxs = 97.8	

Student S2 = new student()

Hearp



Student 53 = new student ()



(2)	

class Student <

string name

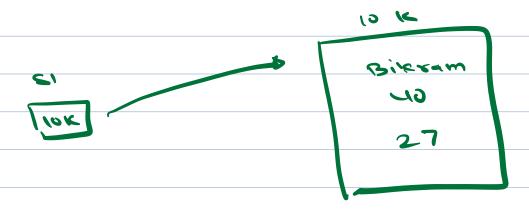
double marks

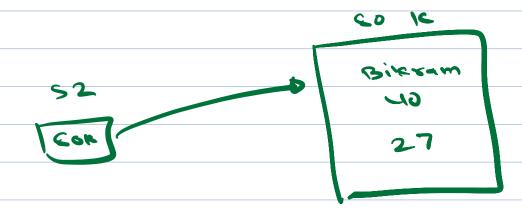
Student (string sname, int sage, int smarke)

Student SY = new student ("ABC", 25, 87)

This Keyword (in Java)
This Keyword (in James)
class Student <
String name
int age
double marks
Student (string name, int age, int marks)
this name = name
this age = age
this marks = marks
this a current object we're
building
this name - object's attribut
this name - orgett

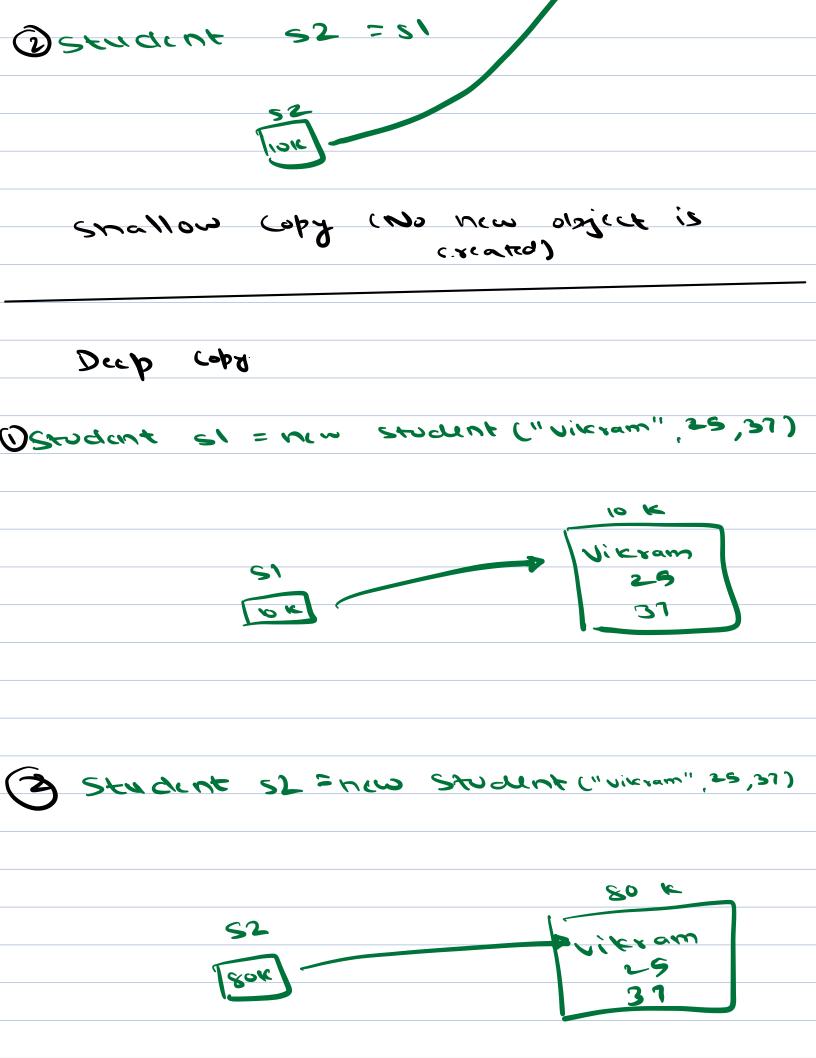
Shallow copy us Deep copy





()Student sI = new student ("vikram", 25,37)





Student	52 = 0	en stud	ent	
	CSI	neme, st	, aze, 5111	wark!)
				10:21