AGENDA
1.) Access modificus
(2.) constructor
shallow/deep copy
start by 9:05 PM

Encapsulation.
Capsule
1.) bind multiple drugs 2.) Puotect it
21 Morect CC
uis doing same thing what a capsule does.
) 10) binds data toogether (althibutes / behv.)
) binds data together (altributes / behv.) 2.7 Prestrating members from lillegitemate
acce es-
Achieve using closs.
class And Objects:
(i) class -
Bluepuint of Entrty.
syntax: class student 2
// attributes
11 behaviours

② Object:
Real Instance of class.
occupies space in memory.
ACCESS MODIFIERS:
help you to achieve 2nd nov. of
Encapsulation →
Puotecting.
1.) Puivate
All members those are Public -
only self class can access.
Nobody else
2-) Public
Anyone can access (any class)
3.) fuotected:
can be accessed only within that
Package. [child class can access from Anywhere]
4-) Default:
Allowed in same fackage, even for
drild class as well.

	50	3ME	Same	child closs	c-c	Any other
	e	عوص	folder	sounce folder	diff folder	opes
P	RINATE	V	×	*	×	×
3	EFAULT	V	V	V	<u>×</u> 7	×
P	ROTECTED	V	V	V	<u>~</u> J	×
F	PUBLIC	~	V	V	V	V

*) CONSTRUCTORS:

constructor.

() -> default constructor.

·) if No constructor is Provided—

default is executed.

benifits-

- 1.) vieate object
- 2.) initial default values.

default:

 $int \rightarrow 0$

String → NULL booleon → false.

- 1.) Their can be many constructous
- 2.) Initially set default values
 then override Given values
- 3.7 Puivate constructions can exist

 → 1.e. Objects cannot be

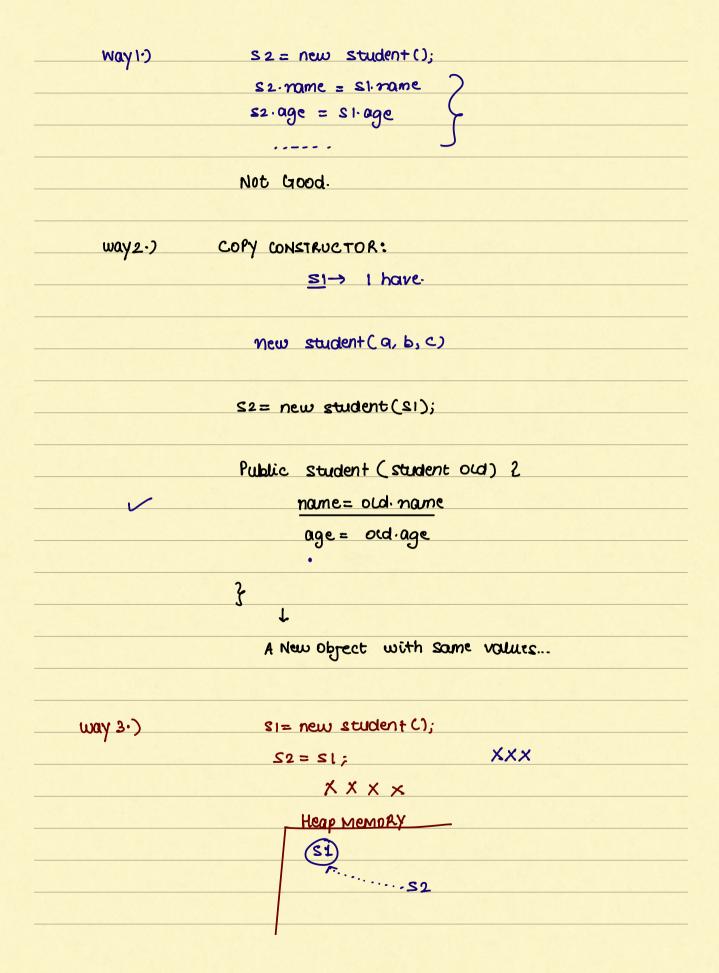
 unealed

COPY CONSTRUCTOR:

Reg: New object of classwhich have same values as that of old one

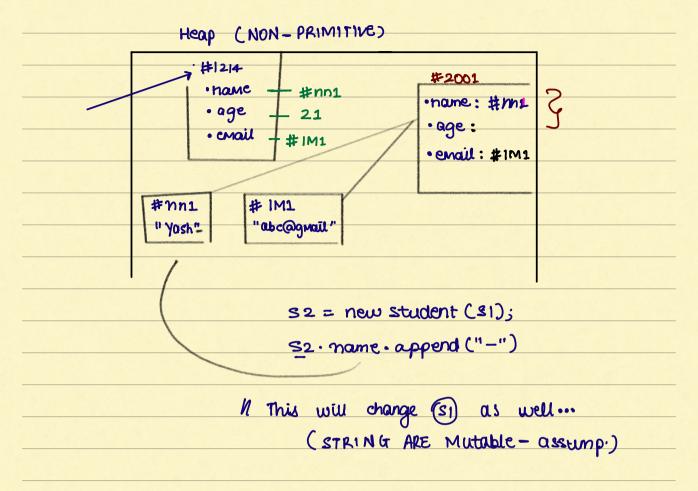
Student s1= new student("Yash",

21, "abc@grait(com");



```
*) HOW COPIES WORK WJAVA:
  (Heap) 1 NON Primitive (Object / String)
                 2 Puinitive
   (stack)
                                 int/double/boolean
                   student si= new student();
                           int a= 10;
                     SI -> stored stack (as variable)
                    Heap (NON-PRIMITIVE)
                      : | 12|4
stack
                                                华2001
                       name
                                 #nn1
                                               ·name: # Aa1
S1= #1214
                       · age
                                 21
                                               · age: 40
a= 10
                       · cmail
                                #IM1
                                               · email: #1M1
                            非 IM1
                 #nn1
                            "abc@gmail"
                  " Yosh"
                                            # AQI
                                             "Rahul"
                11 copy cons.
                              = S2 -> Address is #2001
                             s2 = new student(SI);
                            52. name = "Rahul"
                              s2.age = 40
```

V FINE.



SHALLOW COPY:

- ·) You weated how objects
- ·) Internally they pointed to same locations for attributes.
 - -> They shaved variables.

Deep Copy:

where old and New Object

Don't share data:

in Java -> Easy to weate deep whies? student Batch ·name · name · list<ustructous> · email · list < Batches > Institutor · nane · list < companies > Heap Name Email Ust c Batch very tough to weate deep copies.

Q·) 15	JAVA Pascby	value Or	Pass Byref 22	
		documentaria de		· As value
		So = n	student s1) f ew student(s1);	
		372 11	2000 ii c=1/)	
		52· n	ame="yosh";	
			•	
		X NOT	affect sl	
		y		
		J		
		s 2 · mar	ne-append ("-");	
		will	afect old object	.
Note:	Java is pos	ss by value value that i		
	the			J
		2JUbbA	<u>s</u> .	