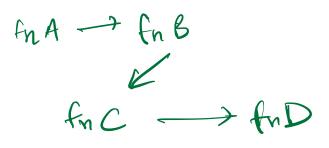
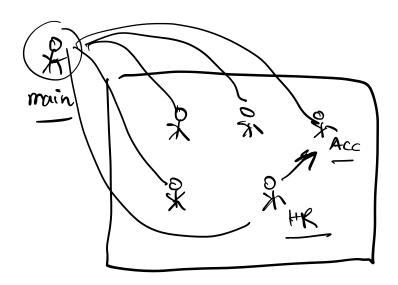
Agenda s			
1. Introduction	m to 00 Ps		
	maiples of 00	Ps	
3- Classes/	Objects		
4. Access	modifiers.		
	Intro dudròn	to OOPs	
	Project-d Proj		
Program mi	ng Paradigm		
Procedural	Procedural 2 00Ps		
${c}$		Java, Python, Ctt,	C#
Procedural: -	<i>p</i>	-> Set of instruct	ions
	l fund	tions/methods.	
fn A 3	fn BS	fn C {	
}	`\$	>	



functions don't relate to anything or each other.



printstudent (frame, id, borch, age 1.)?

Student

Akash is teaching Student are learning People are thinking of a line Some people are sleeping.

subject + verb

some body is doing something

Pro cedural

printstudent (S)

Something on someone.

- 1) less feadable
- 2) less undestardable
- 3) less Reusable
- 4) less extrusible/maintonnable.

ooks

I attribute (Properties)

behavious

00P5

Student. print Student

somebody doing someting.

Car

Affributg. wheels

Behaviours

2. # doors

1. accelerate ()

3. Engine

2 brake()

4. Wolor

3. Start ()

5 - brand

4. terming ()

6. Sérc

5- Hornc)

7. Capacity

Student

Affibures

have 1

email r

DOB,

nge,

botch,

id

no.

Behaviour

attend ass ()

solve Problem ()

take Notes ()

take Contests ()

Pillars of OOPs

- 1. Abstraction
- 2. Encopsulation
- 3. Polymorphism
- 4. Inheritance

Principle

Pillars

Abstraction

- representing in terms of ideas

entity

Bird

Attributes .

Behaviours

wires

fly()

weight

eat()

20100

walk(),

cancy

127

sort() comparator

3rd Party libraries

Abstraction:

- representing complex ideas in terms of entities.
- Other's don't need to know the details

Encapsulation	<u>1</u> :
Capsule:	

- 1) Containing everything.
- 2) Protect it against outside environment.
- 1) Binding together our attributes & behaviour La class.
- 2) Protecting against illegar accens UDAccess Modifiers.

class -> · Blueprint of an entity

Custom datatype.

Student ?

Class Student ?

String name;

int id;

aftributes

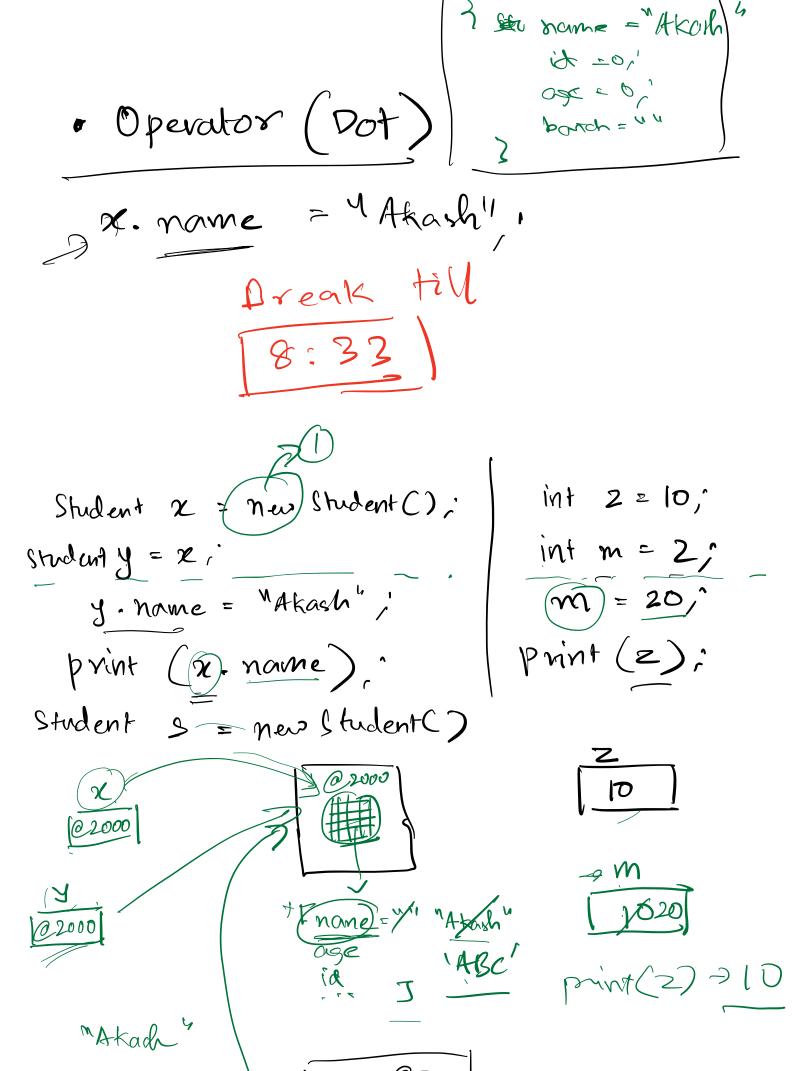
int age;

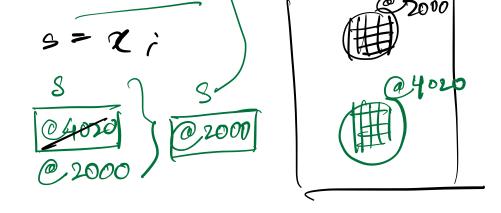
String boutch;

void print Data ()?

bonaviom.

when class in brought into Object is existence - reference - rafiable > Class Name Student (); Student 2 new new operator constructor datatype / Primture data types: int, long floor, double boolean, char





Access Modifiers: keywords which restricts accen of the vowlable -) can be access anywhere private -) can be accessed only inside that class & no where else. default -> can be accessed everywhere within the package. protected -> can be accessed everywhere within the package outside package con ouso be

accessed only by subcloss/childdoss

Access Modifier Table :

	Within Same Class	Within same package	Outside the package- (Subclass)	Outside the package- (Global) (willow	u Subdos
Public	Yes	Yes	Yes	Yes	
Protected	Yes	Yes	Yes (only to derrived class)	No	
Default	Yes	Yes	No	No	
Private	Yes	No	No	No	