Agenda.
-> Interface
7 Abstract Class
3 tatic heyword.
Class. => Bhieprint of an Entity. -> Attributes 4 behavious.
- A concept based up only on belaviour.
Anything that can eat, works & own is an An
behaviours.
interfaces. => Bluepoint et behaviours.
interface Animal L
Void eat();
void walker; Method declaration,
Void veur();

Class Dog implements Animal 1 void easers Print (4) og is Eating4); Void walkeye Print ("Dog is walking"); void runcy c print ("Dog is runing"); => A clase retrich implements au interface, 18 forced by the compiler to implement all its method. Animal a = new Animal(); X > We can't create the object of interface as it is incomplete. Animal a = new Dog ()

Dog Cat Tiger Lion

Animal a = new Dog()

new Cat()

Justions

Justin 2 madatory

Justin 2 madatory

- popl)

? Multiple ways to implement stack.

interface Stack 2

Void pop();

<u>ء</u>

Array based Stock implements Stack (int aloj; int 40p=-19 Void Push (x) (altop] = x; Yoid Popl > 4 int sizecia = bool is Empty () (J <u>ક</u>

F Compiler forces us to provide the implementation of all the behaviours in a class that is implementing it-

Class	LL Based Stock	implements	Stack (
	Node heap		
	Void Push (x) L	
	11 66		
ì	yoid popl > 2		
≥ Sta	CK <ind> St =</ind>	new Arrays	aned Stock();
8-	t·puh(x)		

=> list Jut > list = new Arraylest (>(); Linked liste> (); << list>>> interface list (add (-); remove (); <u>ょ</u> AL implements list (Il Pyrancie Array to implement list metrode. ALKINET Al = new ALCT();

=> List (int > 1 = new ALESI);

=> PHONERS.

Class Monere (

YB yb= new YB();

Send Money (A,B, x)1

yb. transfer (-);

<u>3</u>

Checkbalance (-) <

(46) Cheursalance(-)

<u>3</u>

<u>₹</u>

Class Feshaue (

Void theck balance ()

Void transfer (A, B, X) X

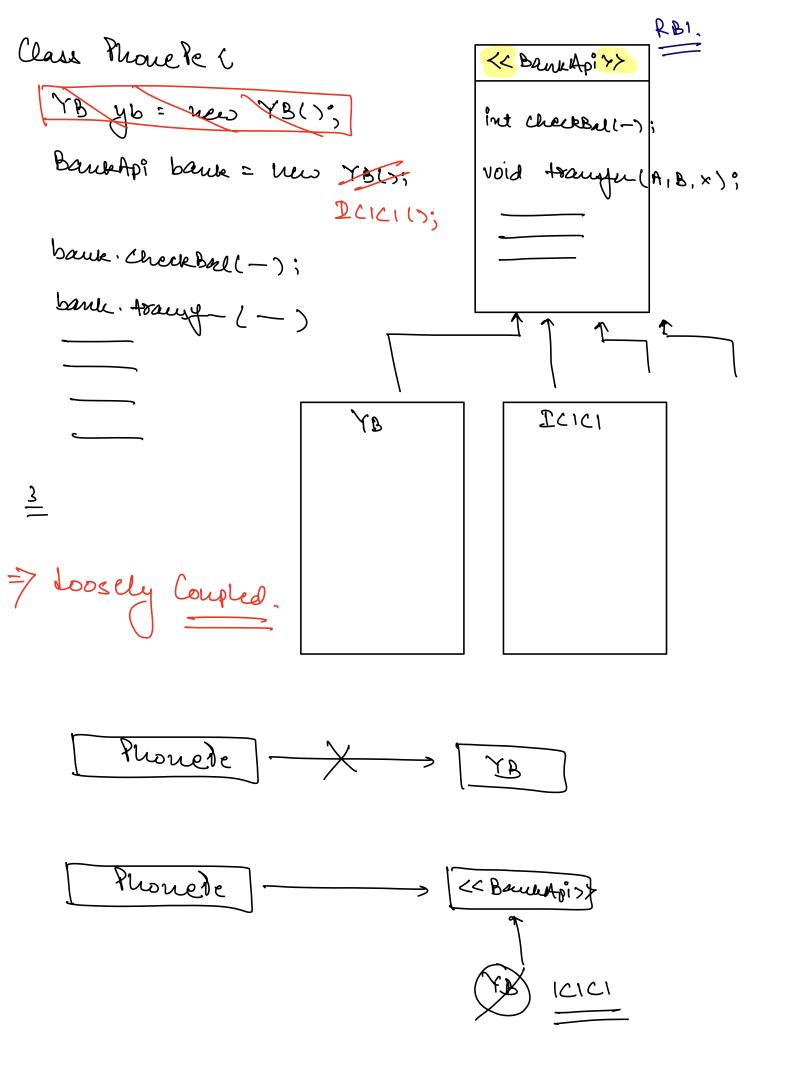
Void registerAcc(=) <

2

<u>ਭ</u>

> YB => ICICI

Class Phonele (
Yo yb= new 48();
ICICI ic = new ICICICI;
Send Money (A,B, x) (1c (x, A,B) 3
Checkbalance(-) < "Cyb: Checkbalancel-) 3 getbrance
Josephore development effort. > Lot ex testing
7 Tight Conpling



Principle: Program to interface, Not to

> Multiple ways of doing sometimes

= INTERFACE.

< serializable >>

interface Berializable à

<u>≥</u>

ABSTRACT CLASS. => Entity (Can have attrs) => Can also have behaviours. > We don't have LOO's Clarity on all the behaviours. Abstract Class Animal K String name: Int age; void eat() { print (Earling"); abstract void walk (); abstract void run (); ? Class Dog extends Arrival à void walk()(Print ("Dog is Walking"); Void dun()

3

Class Cat extends Arrival {
Void ead() { Prind ("Cat is Eating"); Decroiding
void walk()
Print ("lat is walking");
Void dun()
Print ("Cat is running) 8
⇒ D. Can me create an Object of Abstract clas! → No
=> Abstract Class is also incomplete.
Abstract Class User (
be allowed to
Create User
Object. Do abstract method

Abstract Class with No Interface attes & No non-abstract methods.

\Rightarrow	STATIC.
,	

Class Client (

> Public static (void) main />

Access

3 => Client. main ()

=> We call a method on an object.

- Method

" Class. => Brilder. Design Patker.

9+1. Changpsp(+10)

8+2. Changes p (-10)

We don't need an object of Method: a class to call the static method. Belonge to a Class. Student (Clase String name; int age; Static String miv Name = Jival Belongs to a Student Sti = new Student(); Student Ste = new Student (); Student St3 = new Student (); michane Scaler 182 273 512 name 3 name ?name 2 age = milvaus

7 Objects are created vuretime.
> Objects are created vuretime. >> Static fields are initialized at startup time
Plan Static method access non static attos
Load fine
=> Static methods can only access static attos.
the load time of our Application
