4 Pillona 9 OOP

- 1 Encapsulation: Hiding Dada
- D Polymarphism: One entity multiple behaviour
- 3 Abstraction: Hiding complexition of System
- 9 InResitance

Abstraction

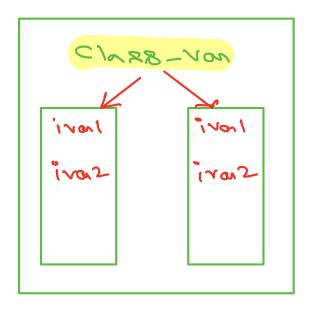
[won le boster!

bal = BALI DIERentance + Abatract Clara

(on) woodness and

e Hiding all the compexities of the system

- * Instance Variable: Variable that belongs to
- * Class Voniable: A voniable define in the class common to all the instances



Clarred via instance
as well of Clarr
itself.

Modification of Class Von

- D When modifying class-von using instance, it ends up creating a new instance Voniable.

 Class-von stay as it is.
- Only Class itself.



- 3 Saving Account
- O (assent Account
- Demot Account
- ideal: Put all code into a single Clara

BankAccount

SavingAccount

Caseent Account

Dem et Account

ideal: Create a sepende clara for each type

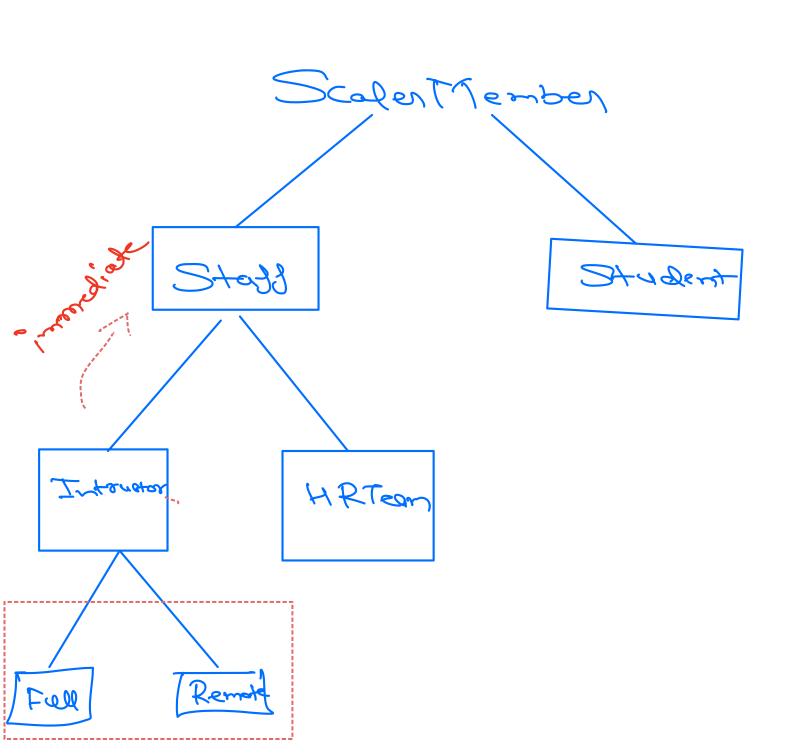
SavingAccount

Casesur Heconut

Demot Account

* idea 3: methods into a basent class Keeb common gage and and create child classes which will contain their unique dota/methods shile inheriting the common beoberties and Wethods BankAccount

Object
(automatically inResited)
by all the classes

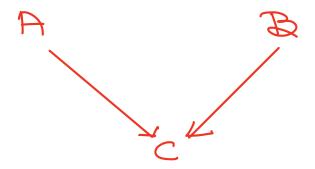


Fr methodic)

Fell -> Instructor -> Staff -> Scaler

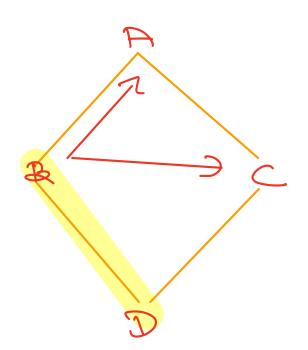
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Ex Multiple Inhonitance



MRO D C (A,B)

Legt to Right = C -> A-> B-Dober

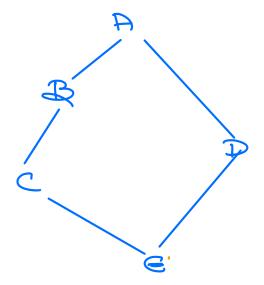


 $\mathbb{Z} \longrightarrow \mathbb{R} \longrightarrow \mathbb{R}$

MRO (D) D B C A

1 Legt to Right

D'Only gato a Parent when all the child have been Vigited



MRO(E) S E -> C -> B -> A

Class P. (Aboutract Class)

Pabe Method
Oley June 1 ()

Pabe

class B(A):

des ganca ()

B1 = B() X Whill all about oak Methods are Overvidden

To create instance By you will have to Overside all Abstract Methods