Currently: - Cenior SWE at Booking. com in Ams.

Previously: - Razorpay (SDE 1)

Samsury Research.

Graduated from Thapar University 2019.

Agenda

- -> Intro to OOP
- Procedural Przyramming
- -> 00Ps

Introduction to UOP

Programming faradigms.

* Procedural Pryramming - c

* Functional -> Scala, Haskell, Go,

* Object Oriented -> Java, Python

* Reactive -> rxjs

Procedural Pryramming.

Procedure -> A set of instructions.

Function

* This is just on oldage name for the functions/ methods that we use these days.

It Each provedure may or may not internally call other procedures.

-> Execution of a program starte from main () function.

main ()
$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

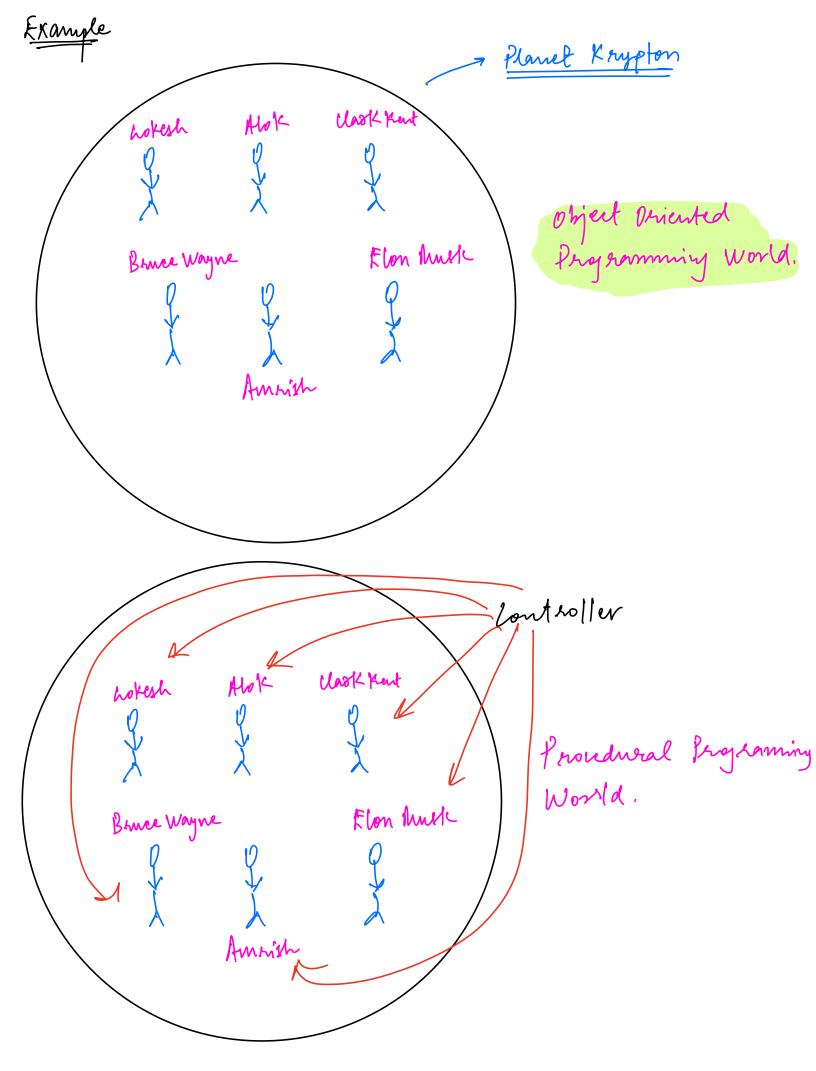
```
What is the problem with Procedural Programming Lang. 9
-> sofia is histering to Alok
- Alok is teaching.
- Rahul is aftending class.
-> Kohit is making notes.
- surya is wondering when will the class end.
      Subject + verb
someone doing something
      entity performing action
If White a method called print Student () with auguments:
   print student (string name, int age, string gender) ?
      System. out. println ( name);
       - - (age);
- - (gendu);
  Stanct (Hrmsture)
```

String name;
int age;
String junder;

A struct looks very similar to a class. But there are a few differences.

* All variables of Heibutes are public.

print student ('student st) someone System. aut. println (st. name); - - (st. age); (St. genda); something paint student () & Comething is happening on VL print Student (Student) Pullen -(i) Action is performed on entities. (ii) Variables are visible faccessible to overgone.



OOP: Software systems should consist of entities

class Student &

private String name;

private int age;

private String gender;

void print () &

vont (name);

cont (age);

cont (gender);

Python.

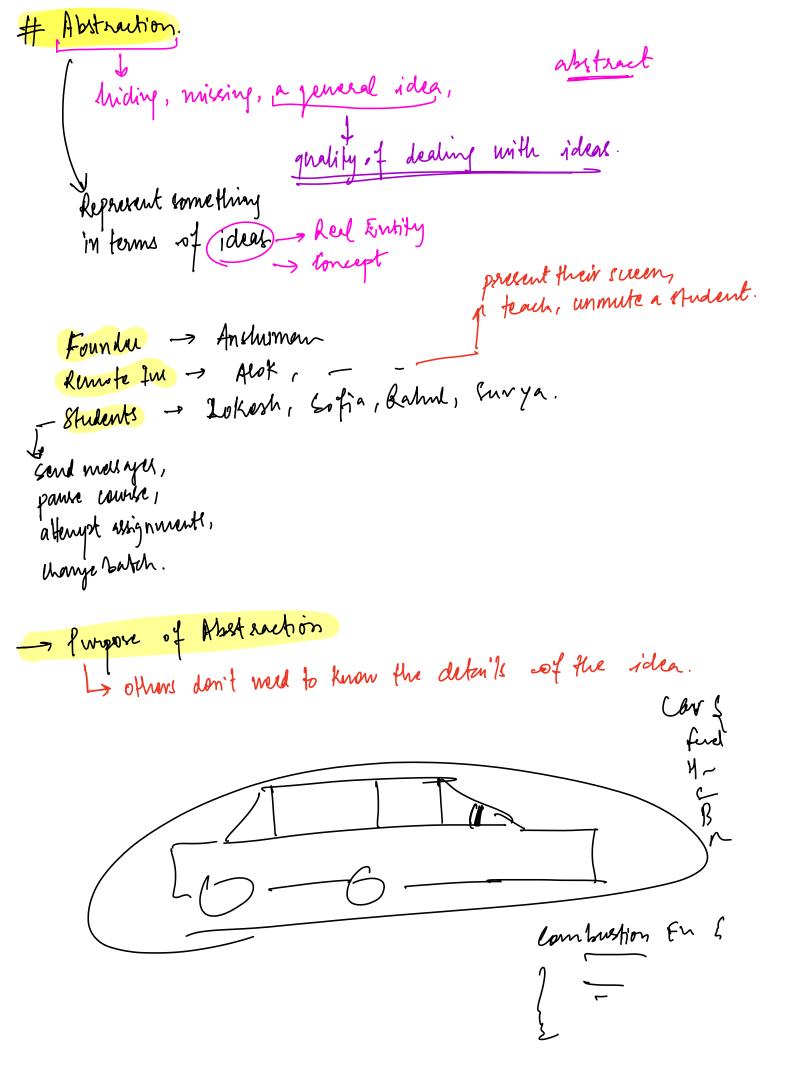
lons of PPL:
* Difficult to make seure of a complex problem.

* Difficult to debug.

OOP Introduction * Entities are the core in OoP

* Every entity has come attribute and behaviour. 4 pillars of OOP -> Abstruction - Inheritance - Polynwaphim Book 1-Java: - A complete Référence. Energedation. (optional) 3 pillows and I principle of OOP. (Truthful/Help/ ...) Pillar ? -> Support system. Pennigle? ~ Foundation / Fundamentals/ (I will be a groderen) We have the pillars to support the principle. Principle of OOP - Abetraction Pillar of oop - Inheritance poly unephim

Enesphilation.



Admin Portal

Change Unik

Fifle.

Uniye fime

Class Student &

| batch Mamne
joing dute

4 Her
psp

Encapsulation swhy we put medicines in capsule What happens when capsule breaks? -> Holds the medicine together -> Protects it from outride envisorment.

-> Avoids writing of come paraders with other inside the capule. I am storing Attributes and Behaviour. Same gurpose of carcapulation in ODP. We store affirmer and behaviour in a Uas-Class Student & genvate age i

Terminology

1) Class: Blueprint, of an idea.

Uax (fudent {

int ape i

String name;

String batch;

Change batch () {

1

3

pance laure () {

give hock Interview () {

1

3

ritchen			Living	
B1		Hall 132		
Bylong				

- -> class takes no space in menning
- -> NOT a real entity
- -> Multiple instances of the same class.

2. Object: Real instances of the class.

