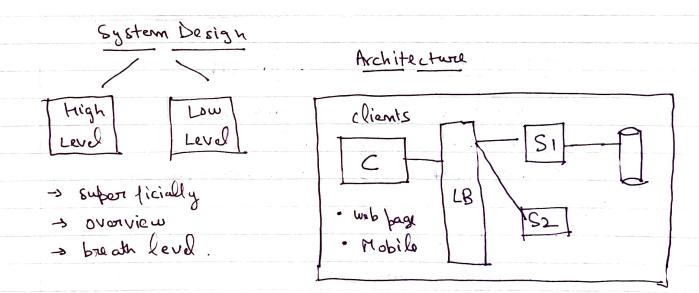
# Day 1: Introduction to LLD and OOP

- -> System Dosign
  - -HLD
  - LLD
- I Good software
- -> Paradigms (Programmings)
  - Procedural
  - 00P
- -3 COPS
  - Abstraction ...
    - Encapsulation.



Implementation LLD -> Implementation -> Structure -> classes -s Organisation. -s Good softwary. - Interactions -> Design Pattorns Interview Klachine Design -s class Design Implementation Diagram Good saftware Sonarqube Lintous -> Maintainable -s Scal able zt- triles block - fython. -> Extensible Maintable -> lasy to understand -s easy to change -s lasy to debug.

Sca Poble Extensibility Coedit 1 Portor mance Payton - handle users. Hactorial -> 1 minute Future Proof - I becomed & X -> 200ms Program Paradigms SOL Python VS Get all users Set a = 1 Set b = 2 c = a + bSELECT \* FROM USERS; senier & steps How to get final value to operations Imperative Dec I wrative 3 SQL 7 - HTML -> Pytron -> React -> c, c++ -3 JS - Java < BUTUN> click · jsx 2/Butons

#### Imporative

-> Procedural

-> 00P

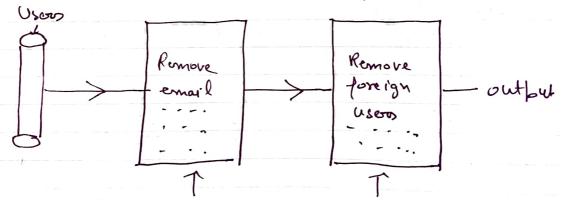
Alice 200 Bub.

- Open alice account
- withdraw 500 from Alice
- 2) withdraw 500 from
  3) Open bob account
  w) crudit 500 to Bol CTU dit 500 to Bob.

## Programming

- (1) State — Data ? Behavioure — Logic

- State and behavious Procedural \* Rept separato.



## Advantage

- 1) Easy
- 2) Modular
- 3) State de couple & Behaviour.

#### Disadvantage

- 1) state is not shared.
- (2) Extensible
  (3) Security eze.

### 90P

Car

- drive } béhaviour.

object

	Account	
~ (5H	sid mind	
	name balance	-s state.
	tractor -oudit -dishit	]_s behaviour

Advantage

- Maintainable,
- Reusable
- Extensible
- Security.

Disadvanlage

- Pro -step of Design.
- -> complex.