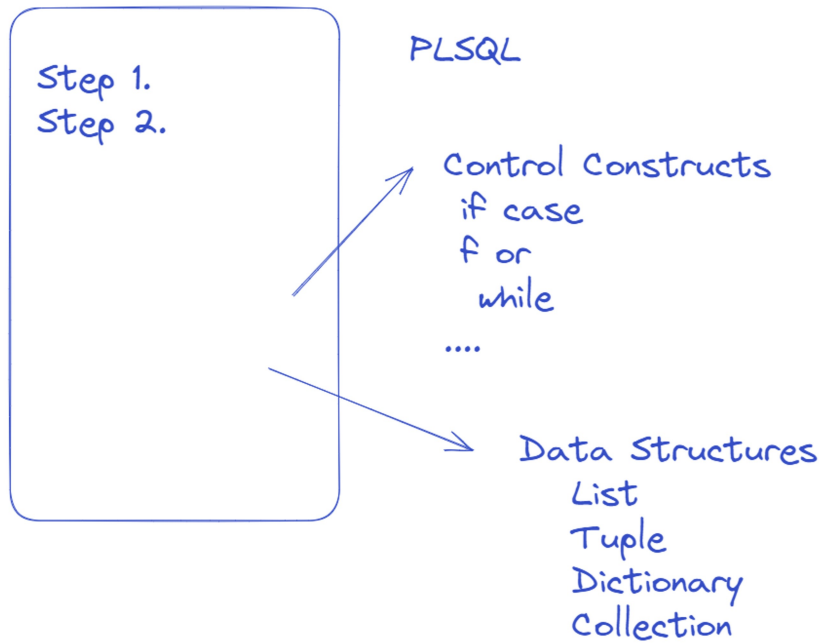


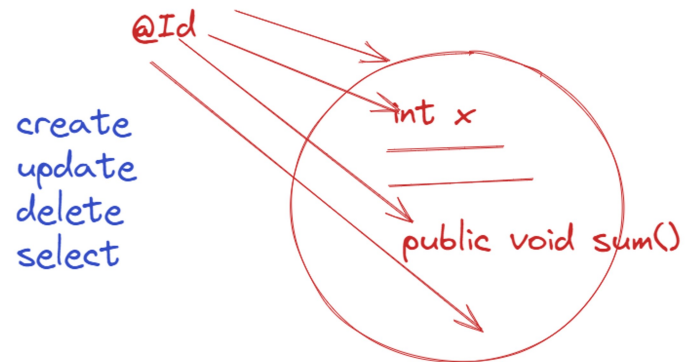
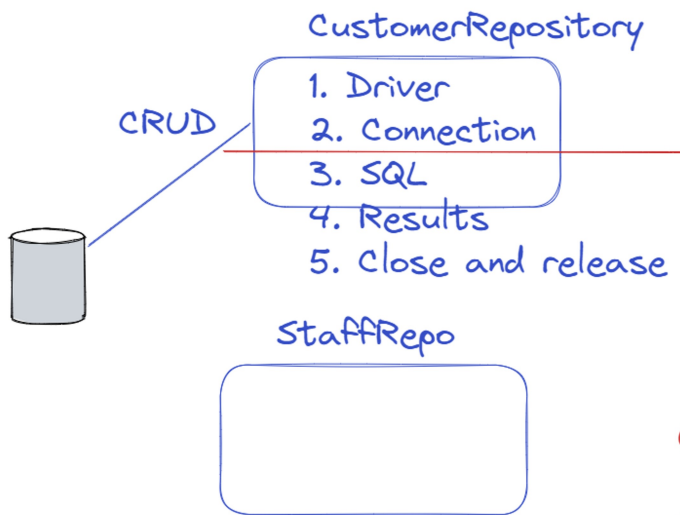
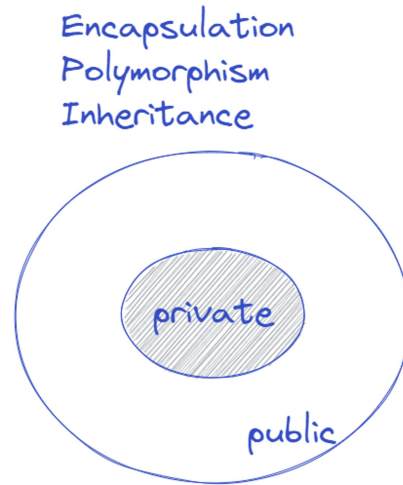
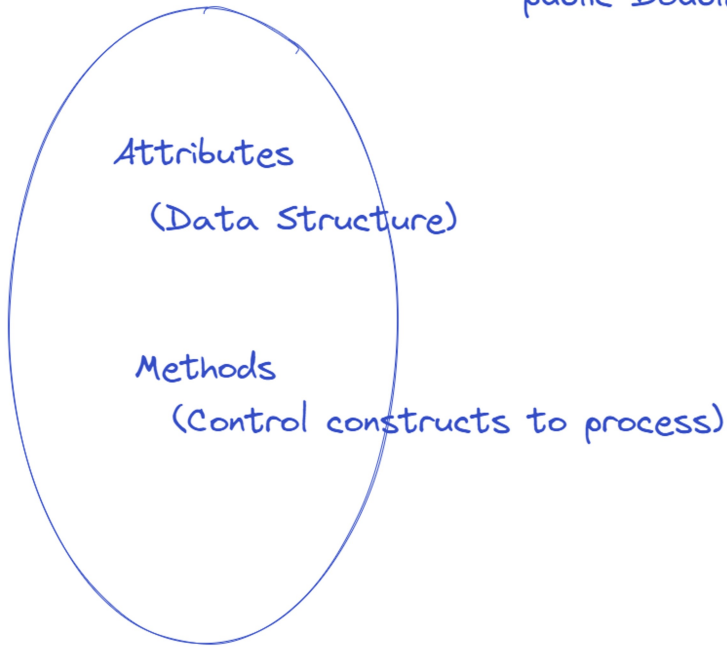
4gl (Procedural Languages) C Python Fortran Cobol



# Object Oriented Programming

C++ Java C#

```
public Double sum(Double x, Double y) {..}
```



Iversion of Control  
Dependency Inection

@Table

@Id

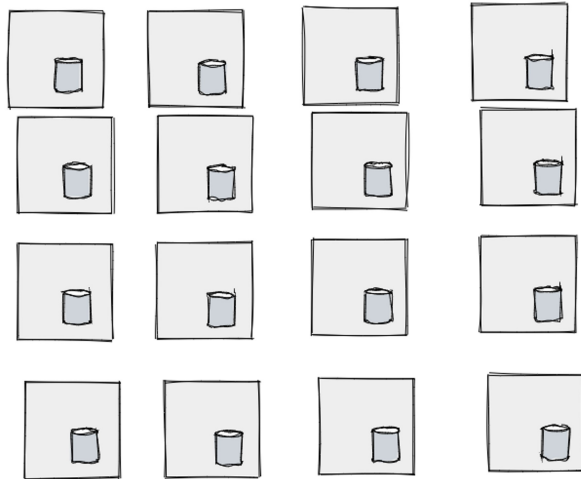
@Automapping

IMPERATIVE LANGUAGES

1 DB 1 SYSTEM (CLUSTERS)



## DECLARATIVE LANGUAGES



Logical

- Gaming
- Unity
- Meta
- Algol
- Prolog

Functional

- Scala
- Go
- Swift
- Kotlin

....

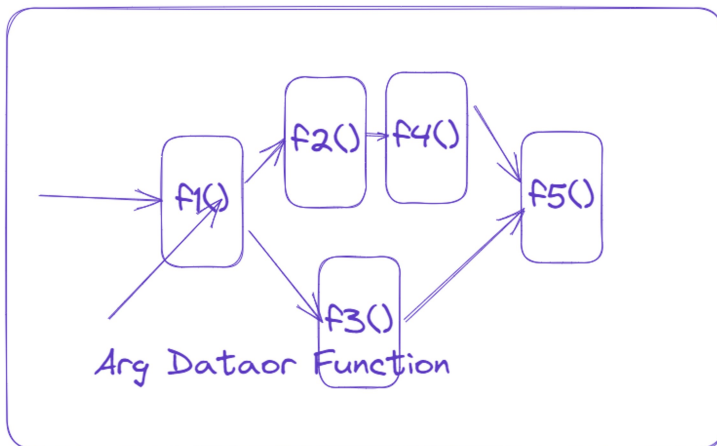
$$f(x, y) \rightarrow x^3 + 2y + 6$$

$x, y$  immutable

$f(x, y)$  can work in infinite

only one output (state) is generated  $x^3 + 2y + 6$

$F(7)$



Learn Open Source Programming Language?? (Self Learning)

- Specification (Grammar of the compiler)
- Documentation (Libraries) examples, input, output - use case
- API Syntax (Syntax)
- official tutorials
- Tutorials YouTube Courseera