Class Diagram + Design pattern, week 3

## 1/ Class Diagram

Structural modeling describes static structure

Data classes + relationships

## Classes = Name + Attributes + Operations

### Attribute :

Syntax as :

visibility name [multiplicity (optional)] : type = defaultValue

It has visibility :

+Public

-private

#protected

/calculated attribute

### Operation :

visibility name(parameter) : return

### Association :

* Classic : have a connection but both are independent (eg : water and bottle)
* Aggregation : empty pointed contains other one, both exist if the container is deleted
* Compoistion : if the full black pointed one die then the other too, because it was CONTAINED
* Inheritance with triangle arrow head

Multiplicity to each part of association

Navigability with arrows if needed

## 2/ Design Pattern