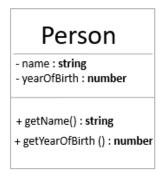
# C3-S2-PRACTICE



### **EXERCICE 1**

A person has a **name** and a **year of birth**:



### A calendar is in charge of computing the age of a given person

- ✓ We need only 1 instance of the calendar
- ✓ A calendar contains the CURRENT YEAR (ex : now it's 2021)



- **Q1** Create the model, following the public/private visibilities of attributes and methods
- Q2 Code the method to compute the age of a person
- Q3 Test your model by creating different person and 1 unique calendar

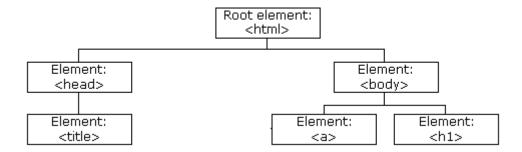
## **EXERCICE 2**

- ✓ Open the **SCHOOL.TS file**
- **Q1** Create the UML diagram corresponding to the classes and their relations ships
  - Don't forget the visibilities (public / private)
  - Don't forget the multiplicities (1, 0/1 etc...)
  - Write your UML diagram using the **TEMPLATE.PPTX** file provided
- Q2 Create a MAIN.TS file to test your SCHOOL MODEL:
  - Create 2 schools, 2 classrooms, 4 students

### **EXERCICE 3 – THE DOM**

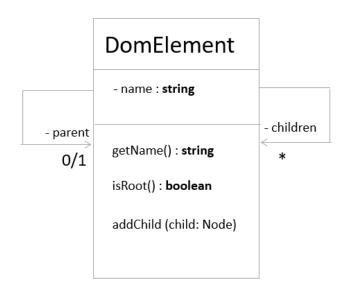
We want to represent the tree of the DOM elements, related to an HTML page For example this page:

Can be represented using this tree:



#### **Every element is an object DomElement:**

- The element can have a parent or not (is not, the element is a **root**)
- The element can have children or not (is not, the element is a **leave**)



- **Q1** Create the model, following the public/private visibilities of attributes and methods
- **Q2** Test your model: create the node object which correspond to the following tree:

