# Javadocs and UML



#### Announcements

- Reminder readings are due **before** lecture
- Office Hours/Student Hours and Help Desks
  - Go to them! They make a difference



https://jefmenguin.com/procrastination/

- This week Exam Module
  - You need to work to have this module open so you can do your Exams
  - Catch up if you are behind!
  - Ask for help, if you need! Don't hesitate to reach out!
  - TAs and myself are here to help you to succeed in this course!
  - Don't procrastinate!

## Javadoc

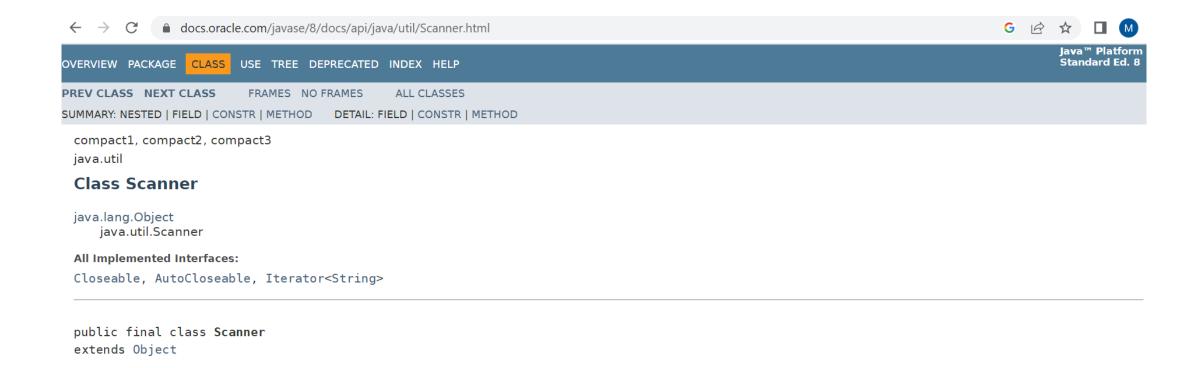
- Parses source code along with specially formatted comments to generate documentation.
- The documentation generated is known as an API (Application Programming Interface).
- Start with /\*\* <enter>
- You will have
- /\*\*
- \*
- \*/

Common block tags used in Javadoc comments.

Block tag	Compatibility	Description
@author	classes	Used to specify an author.
@version	classes	Used to specify a version number.
@param	methods, constructors	Used to describe a parameter.
@return	methods	Used to describe the value or object returned by the method.
@see	all	Used to refer reader to relevant websites or class members.

## Javadoc

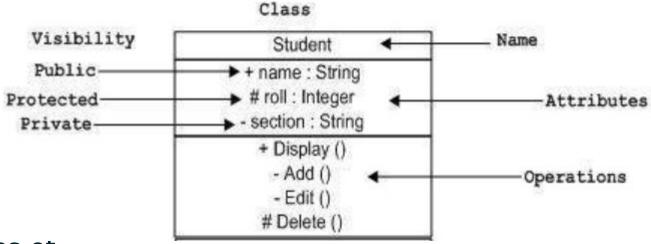
https://docs.oracle.com/javase/8/docs/api/java/util/Scanner.html



#### **UML**

- UML (Unified Modeling Language)
  - is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems

- Class Notation Basics
  - Diagram is divided into three parts.
  - The top section is used to name the class.
  - The second one is used to show the attributes of the class.
  - The third section is used to describe the operations/methods performed by the class.



# **Group Practice Activity 1**

 Use the UML class diagram presented below to identify the class name, attributes, and methods. Indicate the visibility of the attributes and methods.

# -name : String -birthDate : Date +getName() : String +setName(name) : void +isBirthday() : boolean

## **Group Practice Activity 2**

 Use the Javadocs description provided in the code below to implement the method and make the correct calls in the main.

```
public class Practice2 {
    /**
     * Main method used to call other methods
     * @parameter String args[]
     */
    public static void main(String args[]) {
        //write the instructions necessary to call the
        //method you will implement
     * minMax method
     * Asks the user to enter the total number to be read.
     * Determines and print the min and max of the numbers read.
     * @param Scanner in
     */
```

## Worksheet

- Attendance for today's class will be a worksheet
- Each table will receive a worksheet
- Remember to write the name of all participants in your table in a legible way ©