## AGMLAB SUMMER 2018

## Assignment #01: Basic Arithmetic Operations

**Due Date: 26.06.2018 Tuesday 11:30AM**

**Task:** Write a Java program that can handle basic arithmetic calculations. It will take a string input representing an arithmetic operation, parse it, do the calculations and output the result.

The requirements are listed below:

1. Your program will read the input string from console with Java’s ***Scanner***.
2. The calculated result will be printed on the console (***System.out***).
3. Your program must support parenthesis.

*i.e. (2 + 3) + 4*

1. Your program must be capable of ignoring spaces.

*i.e. 3 + 3 -1*

1. Your program must obey the order of operations. As a reminder, the order is ‘Parentheses, Exponents*, Multiplication/Division, Addition/Subtraction’*.

*i.e. (2+3)\*3=15 and 2+3\*3=18*

**Testing:** Your program will be tested with the following inputs. Test it in the first place before submitting ☺

1 + 3 \* 4 – 3 % 3

(2 + 4) \* (7 – 3)

(3 + 2) – 4

**Submission:** Submission will be done to GitHub repo. Submit a folder containing your Java class. The folder name should be in the following format:

Assignment#01-YourName-YourSurname