

# Assignment 1 - Basics in Programming

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**Due** 18 Sep by 23:59      **Points** 0      **Submitting** an external tool  
**Available** until 19 Sep at 1:00

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**Open CodeGrade in a new tab by clicking in the button at the end of the page.**

**Assignment description:** The description of the assignment is available here:

[www.tinyurl.com/dit043a1](http://www.tinyurl.com/dit043a1) [\(http://www.tinyurl.com/dit043a1\)](http://www.tinyurl.com/dit043a1).

For this assignment we will be using **CodeGrade** [\(https://www.codegrade.com/\)](https://www.codegrade.com/). CodeGrade automatically checks the correctness of your code and completion of the Assignment's task.

Therefore, **follow carefully the template for printing string and reading input**. You must also follow the structure of your project, otherwise, CodeGrade will not compile or run your project resulting in you failing the assignment.

Here's an example description and video with the workflow using CodeGrade:

<https://help.codegrade.com/for-students/getting-started/getting-started-in-canvas>.

[\(https://help.codegrade.com/for-students/getting-started/getting-started-in-canvas\)](https://help.codegrade.com/for-students/getting-started/getting-started-in-canvas)

## Submission format:

You can upload a single zip file (not RAR!). You can also submit your files individually. For this submission, **we do not recommend you to have packages in your code**. Your submission must include **at least** the two files below:

- Menu.java: Your program with your **main method**.
- readme.text: A text file where you explain how you divided the tasks between group members.

In case you create more java files when solving the assignment, feel free to upload those as well. For this assignment, you should not include subpackages or any other folder.

## Creating Groups:

This is a group assignment. Even though the groups are created in Canvas, **you must also create your corresponding group in CodeGrade**. **You must use the same name of your group in Canvas**. Students without the proper group name will not be graded.

For instructions on how to create your groups in CodeGrade see the video below:

<https://help.codegrade.com/for-students/advanced-features/handing-in-as-a-group>

[\(https://help.codegrade.com/for-students/advanced-features/handing-in-as-a-group\)](https://help.codegrade.com/for-students/advanced-features/handing-in-as-a-group)

## Checking your tasks:

For passing these assignments (grade 3), CodeGrade will run the following sequence:

- Compile your program: Any syntax problems, or any problems with your project structure (packages, etc.) will cause a failure.
- Task 6: Begin by verifying the template and flow of the menu.
- Task 1: Runs tests for reading the grade of 7 students.
- Task 2: Calculate the mean
- Task 3: Find two highest and two lowest values.
- Task 4: Find position of the highest.
- Task 5: Extracting hashtags

The criteria for receiving a 4 or a 5 will be graded manually **after the submission**.

When CodeGrade checks your tasks, you will see the sequence of inputs used (as if the user would have typed them) and the corresponding values printed in the console. **For passing the assignment, all tasks must be marked as completed.**

For this assignment you can test at steps, so you can submit files as many times as you want before the deadline. Each submission will run CodeGrade that will then tell you which tasks you completed. For grading, we will consider your last submitted project until the assignment deadline.

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