Gradescope Autograder
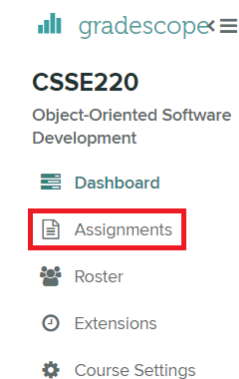
How to create a new assignment

Prerequisites
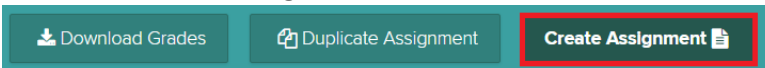
- Local copy of CSSE220 repository (github.com/rhit-csse/csse220)
- Local copy of autograder repository (github.com/cm090/gradescope-autograder)
- Instructor/TA access to the Gradescope course

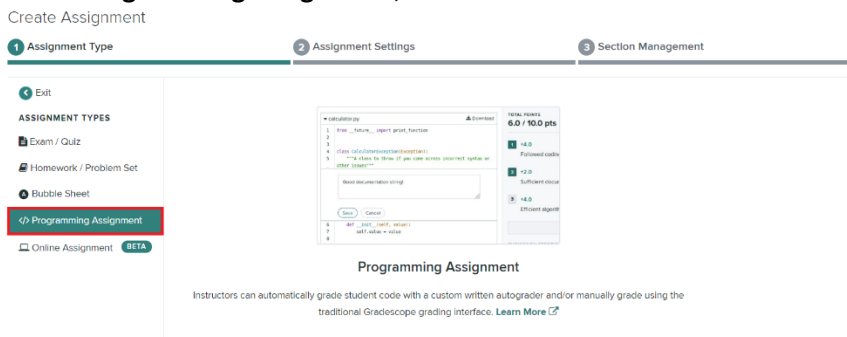## New Gradescope Assignment

1. Open the **Assignments** tab on the Gradescope course homepage.

2. Click on the **Create Assignment** button.

3. Select **Programming Assignment**, then click **Next**.

4. Provide a name for the assignment (usually HomeworkName + Dropbox) and the number of points given by unit tests. If an assignment will be manually graded, this value should be 0. Optionally enable manual grading to set up a rubric later in the process, which won't be covered

in this tutorial. Set a release and due date, and optionally a late due date. After this information is entered, click **Next**.

5. The next page will show options to change visibility by section. This is useful for administering exams. Click **Create Assignment** to continue.
6. You will be taken to the autograder configuration screen. If this assignment will be manually graded, upload *manual-grading-only.zip* from the resources folder of the autograder repository. Make sure to change the **Base Image Variant** to **JDK 17** then click **Update Autograder**. Skip to the Configuration section. Otherwise, continue to the section below.

Building the Autograder

7. In your local copy of the autograder repository, open the builder folder and double-click *AutograderBuilder.jar*.
8. Follow the instructions in the new window to select the original assignment, autograder template, and output directories. Provide a point value that matches the autograder points of the Gradescope assignment, then click **GENERATE AUTOGRADER**.
9. On Gradescope, click **Select Autograder** and upload the ZIP file in the output directory. Change the **Base Image Variant** to **JDK 17** then click **Update Autograder**.
10. If you are having problems with this process, use the instructions in the template folder to manually build the autograder.

Configuration

11. Click on **Settings**. Start by linking the assignment to Moodle by clicking **Link**.
12. Scroll to submission methods and make sure **Upload** is the only option checked.
13. (Optional) Update the ignored files to a recommended format:
    a. *
       !NameOfFile.java
       Copy the above two lines and duplicate the second line for each file you want students to upload

       b. *Test*

          Copy the above line to ignore all test files (recommended if students should upload files that are not only code)

       c. *

          !*.java

          Test

          Copy the above three lines to allow only Java files that are not tests

14. Click **Save**.