

Final Exam

Due Nov 18, 2020 by 5pm **Points** 20 **Submitting** a file upload

Same idea as the midterm one-on-one assessment: you will implement a program that covers some number of topics from this half of the course and present your design / thought process / etc. to the instructor.

Prior to the assessment, you will create and implement a program of your own design. There are essentially no limits to what you can do for your project with one important caveat: you must *meaningfully* include the following aspects as part of your program:

- File I/O
- Data Visualization
- Recursion

To earn full credit, you must meaningfully use at least 1 of the above topics in your program. The key word here is "meaningfully". For example, opening a file and doing nothing with it does not count as meaningful

Your project must be a single, unified idea. Given the time constraints alongside other projects in the course, some leniency will be granted if your project is not at the scope or complexity of other projects in the course. As a result, the grading for this assessment is more heavily weighted on your understanding, though the code you present is still crucial of course.

Project Ideas

You may use the project you created for the midterm one-on-one assessment as a base if you so choose. Incorporating your new topics would entail either improving on what you already have implemented for the midterm or adding on extra functionality.

You may also choose to come up with an entirely new idea. In order to encourage more creativity, I am not including a list of ideas for you. Of course, if you would like help brainstorming, you may always ask your instructor.

You may not use the projects assigned in the course as a base for your one-on-one project, though similar ideas are allowed as long as they are unique.

Assessment

As before, your code must be implemented before the due date, **Wednesday, November 18**. In order to provide more time per student for the assessment, half of the class will have their assessments done on the last day of class - **Wednesday, November 18** - while the other half will be on the day of what would be the final exam - **Monday, November 23**. Only the date of the assessment differs between each half of the class; all students must submit their code by November 18.

[Click here](https://docs.google.com/spreadsheets/d/1ep6rrG-hvAlouwLHH8z2Gm-pL_z6wCwl0Au9Ox2zpq8/edit?usp=sharing) [_\(https://docs.google.com/spreadsheets/d/1ep6rrG-hvAlouwLHH8z2Gm-pL_z6wCwl0Au9Ox2zpq8/edit?usp=sharing\)](https://docs.google.com/spreadsheets/d/1ep6rrG-hvAlouwLHH8z2Gm-pL_z6wCwl0Au9Ox2zpq8/edit?usp=sharing) to sign up for an assessment date.

Your grade will be determined by your understanding of the topics you incorporated, the design of your code, and your ability to articulate what your code does and how you organized the code.

Submission

When you are finished writing your project (whether finished or unfinished relative to what you set out to do), submit your compressed Java project to Canvas.