

In this project, you will show your mastery of:

1. Comments & and writing clear and understandable code
2. Loops & Selection Statements
3. I/O Files
4. Collections
5. Designing with Functions
6. Designing with Classes

For this project you need to create a program that implements all of the above learning objectives. Please see rubric for the specifics of how each will be evaluated.

As we start this project, we will have not yet discussed all of the topics that will need to be implemented. My recommendation is to start building something... anything. As we learn more topics you will have opportunities to include these concepts into your project. The idea is that this project will evolve over the course of the semester as new topics are discussed.

You should start forming groups. You may select your own group members, but groups must have 3 people. No more. No less. Start talking about ideas for you project. Once you have found a group with similar interests, send your instructor the name of your group along with the names of who is in it. At this point, I will create a MS Teams team for you. You can use this for chat and file storage. You're welcome to use GitHub instead, but if you choose this, make sure to add your instructor.

Once you have a group, agree upon an initial idea. This can evolve or completely change as the semester progresses. Once you have your initial idea, schedule a 5-10 minute check in with your instructor to assess the feasibility of the project. (You shouldn't be trying to build the next Twitter for this class).

Start writing!

Keep writing! As mentioned before, your project will evolve as the semester progress. If you get stuck or can't find a way to incorporate a specific topics into your project, check in with your instructor. They will give you advise on how to proceed.

Notice that there are two due dates (see below). One for *Project Draft - 1* and another for *Project Final Draft*. You will get feedback at each of these points. Your overall score will be the higher of these two scores (which will almost certainly by the final draft). Use the feedback from *Project Draft 1* to make adjustments to your final project. Note: Don't be concerned if you don't hit every objective for Draft 1. We will not have discussed classes yet, so there is no expectation to have classes in Draft 1.

Project deadlines and check ins:

- Group formed & names sent to instructor → Tuesday, October 3<sup>rd</sup>
- Project Draft 1 (uploaded to D2L) → Tuesday, October 31<sup>st</sup>
- Final Submission → Tuesday, November 28<sup>th</sup>

Please see D2L → Materials → Content → Project → Sample Project, if you'd like to view projects from previous semesters.