

Develop a python program of your own design. There are multiple stages, each with its own deadline. Due dates are posted to Canvas. Please read the entirety of this project description before you begin. This final project is open-ended. **It can be completed individually or in groups of 2.** If you are working in a group, only one person must submit, but make sure that both names are on the submitted material. At a minimum, your program must :

1. Prompt the user for input, which then your program must use
2. Contain a `main` function, as well as **at least 2 other custom functions**
3. Use a `while` or `for` loop
4. Use a selection statement (`if`, `if-else`, `if-elif-else`, etc.)
5. Either read data from a file or write data to a file
6. Use a `list` to store information

## I. Project Proposal

Submit via Canvas a **one paragraph** project proposal. Be sure to describe WHAT your python program will do, and give a high-level description of HOW your code will work. Your goal is to provide proof that you've thought about the high level structure of your program. Also provide a **second paragraph** in which you discuss possible obstacles that you might encounter.

Do not proceed to step II until your project ideas has been approved. As soon as you submit your idea, I will score it and give you feedback.

## II. Pseudocode

Submit via Canvas at most one page that includes pseudocode for your python program.

## III. Program submission

Submit via Canvas your `py` file that is your implementation of your pseudocode. Your final submission does not need to be exactly the implementation that you describe in your proposal and pseudocode. Think of pseudocode as a blueprint; you may need to modify your program as you proceed through implementation.

## IV. Rubric

Component	Points
Project description and expected obstacles paragraphs	4 points
Pseudocode	4 points
Program (.py file) contains all needed ingredients	12 points
Program (.py file) runs as intended	10 points
Program (.py file) is well commented, uses good variables names, etc.	4 points
Total	34 points