How to Plan a Coding Project
(or approach a difficult coding problem)

1. **Clearly Identify the Problem or Goal.** ✔

   - What are you trying to solve? What is the desired output of the problem?

2. **Identify necessary Inputs and Outputs.** ✔

   - What data needs to be used by the program how will you get it and from where?
   - What is the desired result and how will it be displayed?

3. **ALWAYS break the problem into smaller, solvable tasks that need to be completed. Make a list of these tasks.** Build the parts you are capable of. ✔
   Check them off your task list.

4. **Research/learn any necessary tools needed to complete the task that you are not sure how to do.** ✔

5. **Identify variables, data, or objects that need to be created.** ✔

6. **Identify any mathematics calculations that need to be done.** ✔

7. **Identify comparisons/decisions/logic that needs to be part of the program.** ✔

8. **If necessary/possible sketch out an algorithm or flow chart that maps out the logic of your program.** ✔