**Name:**

**Date:**

**Project:** You will carry out a project by creating a python program that executes some important task or tasks, ideally related to your research. The program must be more sophisticated than, for example, simply making a static plot from a dataset. The project will build on knowledge gained in the individual assignments and lectures, though will be larger in scope than the more targeted and structured assignments. Expect to work on it throughout the term. The program could control hardware, conduct some advanced analysis of data/images, provide a user interface for some specific purpose, etc. The project is open ended and a wide array of possibilities will be acceptable, but the project MUST be submitted to the Professors on Monday June 30, 2020.

**Topic** (1-2 sentence summary):

**Inputs** (data streams, user inputs etc. Be as specific as possible):

**Do you need data to be supplied to you?**

**How will inputs be manipulated**—what processes will be undertaken? (broadly, details not needed now):

**Outputs** (what will be the output of your code?):

**Why is it important to you or others?**  What is the value?