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Assessment

During this exploratory analysis of our chosen language - Python 3 - we found that the programming language met our expectations and standards for continuing to use to the language beyond this point. Within the analysis, we observed that the programming language is capable of building executable, taking in values from STDIN, transforming the values, and printing to STDOUT, displaying a GUI capable of performing on events, and can handle TCP messages. Within each exploratory task, we were able to reasonably find a library (either as a downloadable requirement or from the standard python library) that accomplished the larger task we desired; For example, building a handling TCP messages, or parsing a list json values from STDIN. Documentation, for the most part, was abundant - we found a variety of information online ranging from debugging similar issues, to tutorials, to the actual manual on the library. Furthermore, each assignment was completed within a reasonable amount of time - most of which was simply understanding the problem set and researching a solution. We do not expect any of this to be any different moving forward.

In regards to concerns, we found that python3 does not have nearly as many installations as python2 already on the CCS computers. We are not administrators, and therefore, cannot make administrator decisions when it comes to installations on the programming executing computer. This puts us at a relative disadvantage because if a reasonable certain library or framework is needed - we must request for its installation and wait. This was shown to possibly be an issue in the GUI task where it discovered that a common python GUI library was not installed on python3 - Tkinter. It's installation was necessary for the completion of the task and was later installed. However, even with this drawback, we would still like to move forward with this programming language. The best solution to this is simply to start early, and if such an installation is required to request it as early as possible. Moreover, we do not believe that such requests will be common and will pose huge delays in completing the task.