

2. Write a description of what you thought about when you were designing the code. What did \*you\* think was important to do to make it easy to test the program. What are some of the challenges that you faced when testing this assignment.

After reading the requirements of this assignment, I decided to break it down in several steps. First get input the user id, then use the use id to get api, the repositories and the commits. I think it makes it easier to know when testing what the wrong step is so that we can make changes and improvements to it. After testing, I put the code on Travis CI so that it can auto test.

One of the challenges I think worths mentioning is that If you make too many API requests of GitHub then you may reach a limit and then GitHub will start to give errors. You can only perform so many tests of GitHub APIs within some period of time, so realize that if your tests are passing fine and then all of a sudden they start to fail, then it may be because you have exceeded the limits on GitHub. You will need to stop testing and wait for a period of time before GitHub will allow further requests.

Another one is that when using the requests module, we need to install it too on Travis CI. I didn't realize until it kept showing failing on my GitHub page. I reread the assignment requirement and found the solution was already provided.