Part 1.

The steps I took in this lab session were logging into github because I already had an account created. When I logged in I searched around for a little bit and found some cool repositories by other creators on the platform. I then created my own repository and created it with the correct file name. After that I went to access a Jupyter Notebook by using an online environment, the one I chose was Google Collab because I am familiar with it and I have used it in classes I am currently taking to create other projects. After that I did the basic operations in the notebook like, `print("Hello, World!")` and writing My first markdown cell in Jupyter.

Part 2.

The new concepts and tools we used in this lab were the entirety of GitHub and Google Collab. It was super easy interacting with GitHub because it is very user friendly and interaction with the platform was very smooth. My experience with google collab was very easy because I had already known where all the buttons were and where to go to find certain things, I found things like creating a new notebook easy, and creating things in google collab. Version control was very simple and cool. The repositories were great for storing project files and tracking history. The Commits saved changes with messages describing updates. The Branches are what create separate versions of a project so you can work on the new features without affecting the main codebase. Pull Requests can merge changes from a branch into the main project while allowing reviews. Then in google collab you can see Notebook History, Google Drive Integration, GitHub Integration, and Revision History. The Notebook History tracks all the changes made to a notebook, and that allows users to automatically revert to previous versions. Which is great because if you accidentally mess something up but don't realize for a while you can always go back to before you changed it so you can have it back to normal. The Google Drive integration saves every different version automatically to google drive so you can visit past versions of the notebooks you have created. It also has great github integration. You can input

github notebooks directly and it allows users to open, edit, and save them in Google Collab. It also has great revision history so you can view a log of changes and restore earlier versions if you are needed too. GitHub is generically better for full fledged software development and version control and Google Collab is better used for quick data science projects and notebook collaboration with easy cloud storage.

Part 3.

Questions I have are pretty basic like,

What are the things we are going to be doing on these sites in the future of this course?

What is the most difficult thing that we will have to code in this course?

Will we be using these regularly or just on occasion?

How important is it that we get familiar with these sites?

Some comments I have are that it was very easy to get around and the user interface was very very friendly. I had no problem looking around and doing the basic tasks because well, they're basic. These things weren't meant to be hard and they were very simple to complete and took less time than warranted. Getting used to GitHub and google collab will be pretty easy for me because I find some joy in these things and it comes to me very easily. Typically anything to do with online or computers is very easy for me because that is where I spend most of my time. Even with video games I can get really good really fast and I hope the same thing happens with coding and doing other things.

Some more questions I have:

What are the limitations of using Google Colab for long-term project storage compared to GitHub?

Can you restrict access to certain files or branches in GitHub?

I mainly ask this because my files were automatically open publicly can I automatically make it private?

https://github.com/hayden-hartz/jupyter-exploration