1. What You Did:

* Created a GitHub account and explored features like repositories and issue tracking.
* Developed a new repository for the lab session.
* Installed Jupyter Notebook on your local machine or accessed it through a cloud platform.
* Opened a new Jupyter Notebook and created code and markdown cells.
* Wrote and ran your first Python code in a code cell.
* Applied Markdown formatting in a markdown cell.

2. What You Learned:

* Version control with GitHub:
  + Understood the benefits of collaboration and code history tracking.
  + Learned how to commit, push, and pull code changes.
  + Gained basic understanding of branching and merging.
* Interactive computing with Jupyter Notebooks:
  + Discovered the interactive nature of code execution and output display.
  + Learned how to write, run, and modify code within the notebook environment.
  + Explored the different cell types and their functionalities.

Challenges Faced:

* Initially faced challenges in setting up the GitHub repository.
  + Solution: Consulted GitHub documentation and successfully created the repository.
* Needed time to understand the Jupyter Notebook interface.
  + Solution: Explored features, experimented with cells, and referenced Jupyter documentation.

Reflection:

This lab provided a hands-on introduction to fundamental tools in data science and collaborative coding. Setting up a GitHub repository helped grasp version control principles, ensuring a structured approach to project development. Learning Jupyter Notebook's interactive computing capabilities illuminated its versatility in combining code and documentation seamlessly. Overcoming initial challenges underscored the importance of resourceful problem-solving, encouraging an exploration mindset. Looking forward, these foundational skills will undoubtedly enhance collaboration and productivity in data science projects.