

Arianna Abramovich
ASTE 404
Homework 4

Part 1: GitHub + IDE Workflow (10 points)

a) Sign up for Github

Hey **Arianna Abramovich** ,

Welcome!

Thank you for joining [GitHub Education](#). GitHub Education helps students, teachers, and schools access the tools and resources they need to shape the next generation of software development.

Congratulations, you are now a GitHub Education student! You can now explore valuable offers provided by GitHub's partners in the GitHub Student Developer Pack, view student events, and much more when you sign in at:

I have been approved as a student for GitHub education.

b) GitHub Tutorial from the Web UI

- i) I followed the Hello World tutorial and got myself familiar with GitHub

c) Why Use Git and Version Control?

- i) Version control, or source control, is the process of tracking and managing changes to software code. This is specifically helpful for DevOps teams since they help reduce development time and increase successful deployments. In addition, since version control keeps track of every change made, mistakes can easily be traced and corrected through comparison of code.
- ii) Git is a distributed version control system that is free and open source designed with performance, security, and flexibility in mind. The main benefits of Git are a long-term change history of every file, branching and merging, and easy traceability. Some SCM best practices include, often commits, ensuring you work from the latest version, make detailed notes, review changes before committing, use branches, and agree on a workflow.

d) Git from the Command Line

- i) Instead of using the command line, I downloaded the GitHub desktop.

e) Cloning the Tutorial Repo Locally

- i)

f) Committing Changes from the Command Line

- i)

g) Git Integration in Your IDE

i)

h) Updating Your Report and README

i)