

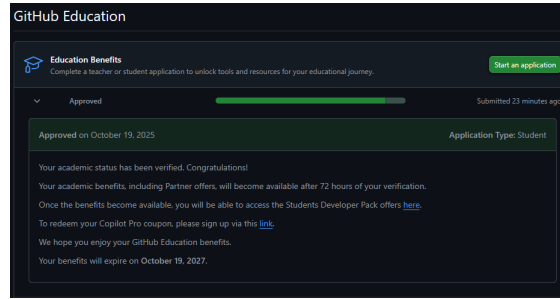
**Part 1a. Sign Up for GitHub Education**

Figure 1: Accepted Github Education Application

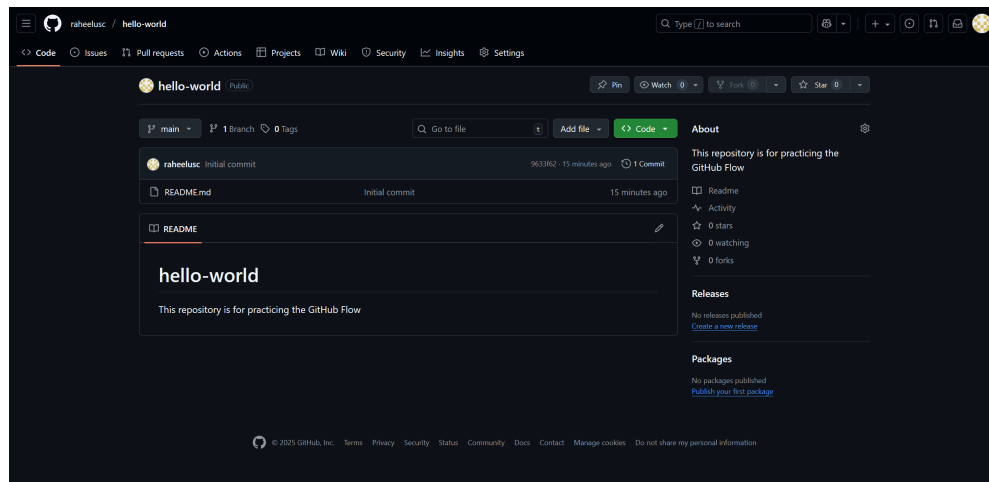
**Part 1b. GitHub Tutorial from the Web UI**

Figure 2: Step 1 - Made a repo

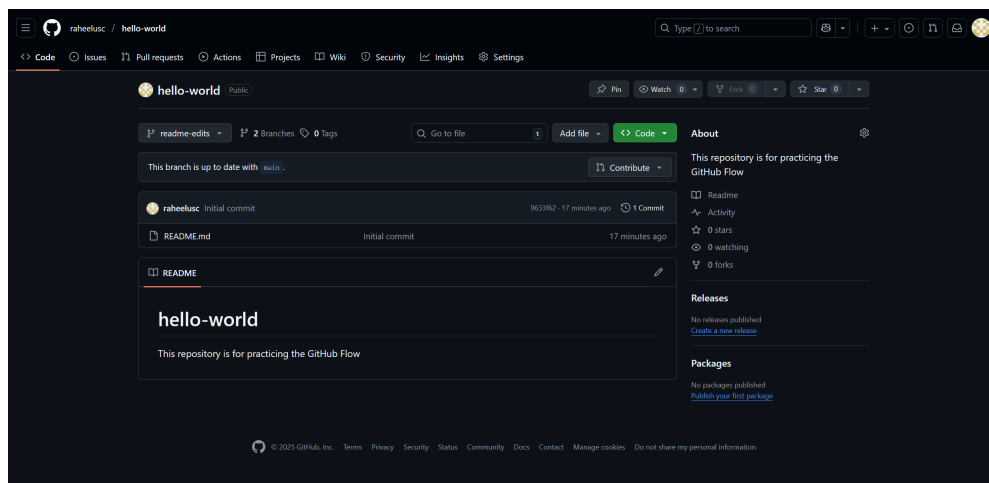


Figure 3: Step 2 - Created readme-edits branch

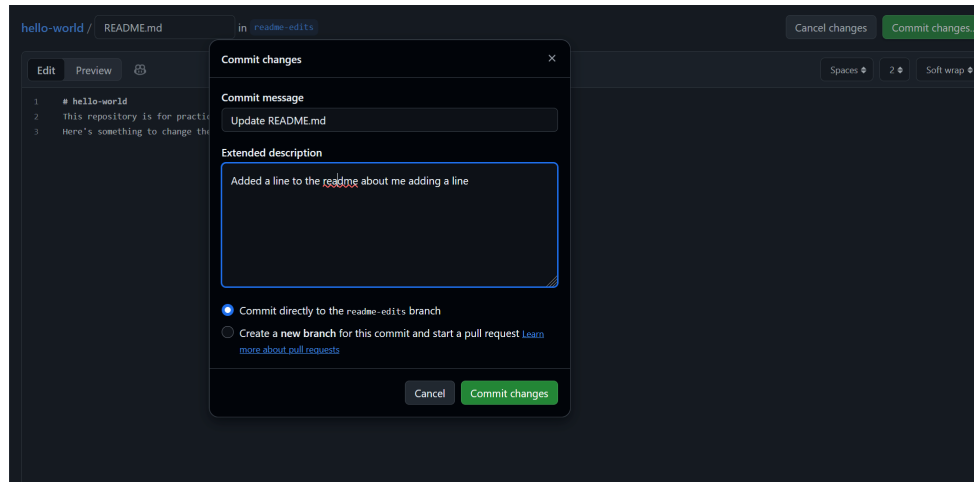


Figure 4: Step 3 - Pushed a commit

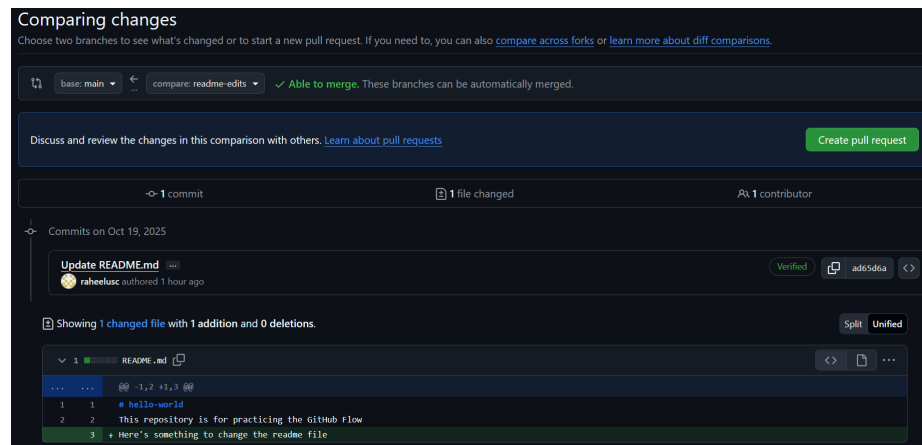


Figure 5: Step 4 - Created a pull request

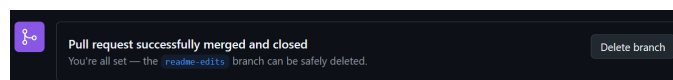
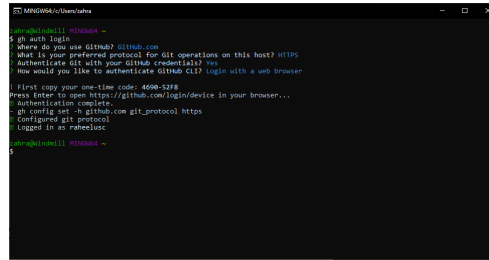


Figure 6: Step 5 - Merged branches

### Part 1c. Why Use Git and Version Control?

- Version control is the practice of tracking and managing changes to software code.
- Version control is needed to avoid conflicts from multiple contributors
- SCM tracks modifications to a source code repo and is synonymous with version control
- Git is the most widely used version control system

### Part 1d. Git from the Command Line

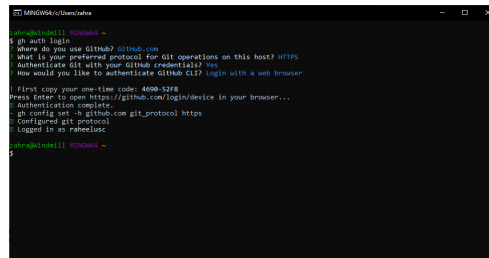


```

MINGW64 ~/Documents/Latex
$ git config --global user.name "Zahraan Raheel"
$ git config --global user.email "zraheel@protonmail.com"
$ gh auth login
where do you use GitHub? GitHub.com
what is your preferred protocol for git operations on this host? HTTPS
Authenticate Git with your GitHub credentials? Yes
you would you like to authenticate GitHub CLI? login with a web browser
First copy your one-time code: 4690-5278
Press enter to open https://github.com/login/device in your browser...
Authentication complete.
$ gh config set -h github.com git_protocol https
Configured git protocol
Logged in as zraheeloc
$

```

Figure 7: Git username and GitHub credentials setup

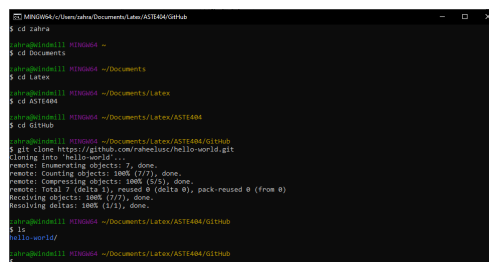
**Part 1d. Git from the Command Line**


```

MINGW64 ~/Documents/Latex
$ git config --global user.name "Zahraan Raheel"
$ git config --global user.email "zraheel@protonmail.com"
$ gh auth login
where do you use GitHub? GitHub.com
what is your preferred protocol for git operations on this host? HTTPS
Authenticate Git with your GitHub credentials? Yes
you would you like to authenticate GitHub CLI? login with a web browser
First copy your one-time code: 4690-5278
Press enter to open https://github.com/login/device in your browser...
Authentication complete.
$ gh config set -h github.com git_protocol https
Configured git protocol
Logged in as zraheeloc
$

```

Figure 8: Git username and GitHub credentials setup

**Part 1e. Committing Changes from the Command Line**


```

MINGW64 ~/Documents/Latex/ASTE404/GitHub
$ cd zebra
$ cd Documents
$ cd Latex
$ cd ASTE404
$ cd ASTE404
$ cd GitHub
$ git clone https://github.com/zraheeloc/hello-world.git
Cloning into 'hello-world'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (7/7), done.
Resolving deltas: 100% (1/1), done.
$ ls
hello-world/
$

```

Figure 9: Cloned GitHub repo