

✓ Git & GitHub Lab

This lab will guide you through the basic Git workflow and a task.

Setup for tasks 🧑🧑

Go through the pre-requisite installations in the following reference to setup your github and git:
https://github.com/gallettilance/CS506-Spring2025/blob/main/lecture_01/worksheet_01.ipynb

Git Commands You May Need in This Lab 😊

1. Initializing your local folder as a git repository

git init command initializes your current folder as a git repository. It creates a hidden `.git` directory in your project folder.

2. Checking repository status

git status is used to check the current state of your project.

3. Add files to staging area

git add {filename1} {filename2} {filename3}

4. Commit changes

git commit -m "Your commit message here"

5. Link your local git repository to your github repo

git remote add origin [git@github.com:your_username/your_repo.git](https://github.com/your_username/your_repo.git)

6. Push changes to github

git push -u origin main -- (If the branch is *master*, replace *main* with *master*)

7. Creating a new branch

git branch new-branch-name

8. Switching to a new branch

git checkout new-branch-name

9. Cloning an existing github repository to your local system

git clone [git@github.com:your_username/your_repo.git](https://github.com:your_username/your_repo.git)

10. Adding upstream

git remote add upstream [git@github.com:username/original_repo.git](https://github.com:username/original_repo.git) allows you to link your local repository to the original repository from which you forked the project. This enables you to stay updated with the latest changes made in the original repository.

Task - Creating a Pull Request 🧑🏫 🧑🏫

Your task is to:

1. Fork this github repository : [git@github.com:iamcalledayush/Pull-Demo.git](https://github.com:iamcalledayush/Pull-Demo.git)
2. Clone the forked repository to your local machine.
3. Add an upstream remote pointing to [git@github.com:iamcalledayush/Pull-Demo.git](https://github.com:iamcalledayush/Pull-Demo.git)
4. Create a new branch in which you will perform the following steps.
5. Add your name in the already existing "readme.md" file, by either using a code editor like VSCode or command line terminal.
6. Add, commit, and push the changes (updated readme) to forked repository and the new branch you are working on.
7. Create a pull request to merge changes into the original repository's README file. To do that, go to the original repo and click on **Pull Requests** on top. Then, click **New Pull Request**. Now, click on **compare across forks**, and create a pull request once it is ready to get merged without conflicts.

(Make sure the pull request is from your forked repository and the new branch you created to the original repository's main branch.)

Remember, **base** is the original repository and **head** is your forked repository.

Create a new pull request (select the branches of base and head repositories appropriately) **with title as your BU USERNAME (bu email without @bu.edu)** for the TA to check and evaluate you 🧐

The workflow mentioned above is what you will use in future to contribute class notes to the course repository.

Part 3: Evaluation 🧐

Complete this github and kaggle form (as instructed in the class)

<https://forms.gle/YitWBVWeegjZzTJy9> .

We will evaluate and give credit for your lab 🥳 by checking your pull request and time of the pull request (whether it is within your assigned lab time). You will only receive credit if your pull request is created within your assigned lab time.

The pull request should look something like this ("ayush" is the name):

