

DSE511-HW2

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Comprehension (20% total)

1. (10%) What is git?

Git is the version-control system based by some current popular platforms, like GitHub, GitLab, for users to manage different versions of their code and collaborate with others on coding.

2. (10%) What is GitHub?

GitHub is one of the mostly used web-based platform for users to use Git, to collaborate on coding, distribute coding products to wide users, and provide their source code for public review, etc.

Basic git Commands (40% total)

1. (5%) Give the command(s) for showing the status of the local git repository.

`'git status'`

2. (10%) Give the command(s) to stage and then commit a new file named `new_file` (choose a reasonable commit message)

`'git add new_file'` then `'git commit -m "Added new_file to repo."'`

3. (5%) Give command(s) for unstaging a file named `modified_file` that has been modified and then

`'git reset modified_file'`

4. (5%) Give the command(s) to create a branch named my-new-branch.

`'git checkout -b my-new-branch'`

5. (5%) Give the command(s) to delete a branch names my-new-branch.

`'git branch -d my-new-branch'`

6. (5%) Give the command(s) to send local changes on branch my-branch to the remote named origin.

`'git checkout my-branch'` then make commits on "my-branch" and finally `'git push origin'`.

7. (5%) Give the command(s) to retrieve remote changes on branch my-branch from the remote named origin

`'git pull origin my-branch'`

GitHub (40% total)

1. (10%) Create a GitHub repo on your account titled dse511_homework

URL of the repo created: "https://github.com/learningMalanya/dse511_homework"

I did this on GitHub by:

- Login to my GitHub account; click on "New repository";
- While creating, for the settings, give the repository name as "dse511_homework", give basic description, select visibility as "Public", add a README.file (this will initialize a markdown file with the description and title of the repo).
- Finish by clicking on "Create repository".

2. (10%) Add a readme.

Added the initial README.md while creating the repo by selecting "Add README." and writing a brief description of the repo.

3. (10%) Create a feature branch new-feature.

I did in Terminal by:

- First, clone the repo by "git clone ..."; I cloned using HTTP.
- Check current branch at "main" by 'git branch';
- 'git checkout -b new-feature' which will create and switch to work on the "new-feature" branch.
- I will add this current latex file after I'm done writing to the new-feature branch;
- I will add the file to my local directory of the GitHub repo, and use 'git add -A', 'git commit -m ...' and finally 'git push new-feature'.

4. (10%) Create a PR from branch new-feature into the primary branch.

On GitHub, I will go into "Pull requests" and then make the pull request from branch "new-feature" to "main".