Git and GitHub useful commands.

->To configure your user email & username.

\$git config - - global user.email " your email"

\$git config - - global user.name "your username"

->Make a new directory.

\$mkdir < name >

-> Change the working directory.

\$cd <name>

->Make a git repository in directory.

\$git init

-> Check if the directory exists.

\$ls -la

->Look inside directory.

\$git -l .git

->Add file to directory staging area.

\$git add <file name> OR \$git add *

->Get info about current working tree and pending changes.

\$git status

->Commit your changes.

\$git commit (Then write the commit msg in the editor and save)

OR \$git commit -m "commit msg"

-> Check current configuration of a directory.

\$git config -I

->When adding a new python file in directory we need to make it executable first by:

\$chmod +x <file name>

->To get the history of your commit msg.

\$git log

->A shortcut to stage any changes to tracked files and commit them in one step (Doesn't work on new files).

\$git commit -a

OR \$git commit -a -m "commit msg"

- -Git shows the head alias to represent the current checkout snapshot of your project.
- ->To look at the actual lines that changed in each commit.

\$git log -p

->If you want to see a specific commit details by commit ID.

\$git show < commit ID>

->To show stats about the changes in the commit "How many lines changed?".

\$git log - - stat

->To keep track of everything you change before staged them.

\$git diff

->To show the changes being added and ask you if you want to stage them.

\$git add -p

->To see the changes that are staged but not committed

\$git diff - - staged

->To delete files from a directory.

\$git rm <file name>

- -After we delete file, it goes to the stage area and is ready to be committed.
- ->To rename a file in a directory.

\$git mv <<u>old name</u>> <<u>new name</u>>

- -After we rename a file, it goes to staging area and is ready to be committed.
- ->To ignore file that you don't want. (First create a .gitignore file)

\$echo file name > .gitignore

\$git add .gitignore

\$git commit -m "commit msg"

->To discard changes in the working tree. "Before staging them"

\$git checkout <file name>

- OR \$git checkout -p < file name > "To checkout individual changes instead of the whole file"
- ->To unstage our changes that don't want to commit.

\$git reset HEAD < file name >

->To overwrite the previous commit or add the other file in the staging area with the previous commit.

\$git commit - - amend

- -Don't use this command in public repository because it rewrites the git history, removing the previous commit and replacing it with the new one.
- ->To create a new file.

\$touch <filename>

->To roll back a commit you made.

\$git revert HEAD "The previous commit"

OR \$git revert commit id "The commit you want to roll back"

->To show a list of branches we have in our repository. \$git branch ->To create a new branch. \$git branch < Branch name > ->To switch to a new branch. \$git checkout <Branch name> ->To create a new branch and switch to it in a single line. \$git checkout -b < Branch name > ->To delete a branch. \$git branch -d <Branch name> ->To merge branches together. "The master/main with other one" \$git merge < Branch name > ->To better understand the history of your merge occurred. \$git log - - graph - - oneline - - all "If you need all branches" ->To stop the merge process. \$git merge - - abort -It will stop the merge process and reset the files in your working tree back to the previous commit before the merge.

