1. Here are a few git and GitHub commands we usually use in software development, please explain the meanings and use cases of them.

- **git status**: displays the state of the working directory and the staging area.

- **git add**: adding files into the staging area from working director.

- **git commit**: saving changes to the local repository from the staging area.

- **git log**: show the list of the most recent commits.

- **git push [Repo_name] [Branch_name]**: uploading the local repository content (Repo_name) to a remote repository (Branch_name)

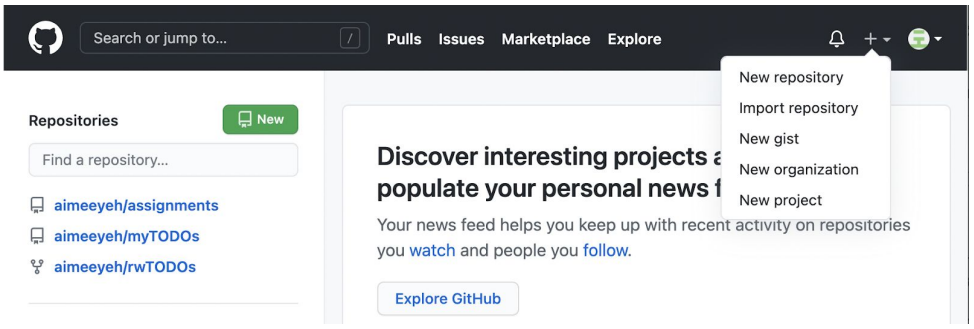
- **git remote -v**: list all the remotes that are associate with the current repository.

- **git branch**: creating a new branch off master.

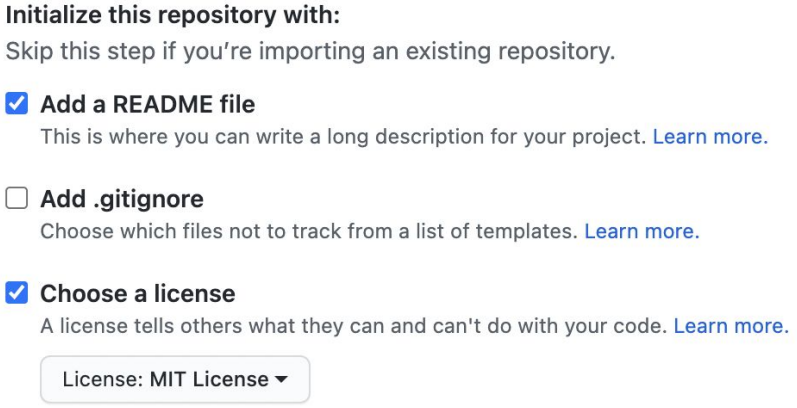
- **fork**: taking an entire copy of the repo and replicate it in your own personal user space.

2. Please describe how to establish a github repo and how to upload the local projects to github. Try to explain it as detailed as possible.

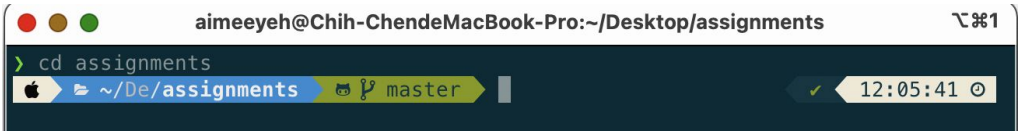
1. First you create a new repo by clicking on the + sign and choose “New repository” on the github website.



2. Tick the checkbox of adding a README file and choose a license.



3. Then you cd into the directory which contains the local projects you want to upload.



4. **git add** + file name
5. **git commit** + file name
6. **git remote add** + remote name(origin) + remote URL(https://github.com/aimeeyeh/assignments)
7. **git push --set-upstream** origin master