What is GitHub
- A version control system
  - Keeps track of versions of project and software

- Benefits
  - Easy way to share and collaborate
  - Great way to keep track of code
  - Ability to save our process an go back to earlier points in our projects
  - Difficult to mess up projects

Reference Video

https://www.youtube.com/watch?v=wrb7Gge9yoE&ab_channel=Codecademy

How to Push to Github

Steps:
- 1 Create a new repository
  - On GitHub
- 2 Open the terminal
  - On your computer
- 3 Set your local project as the local directory
  - cd - to navigate to your respective folder
  - ls - Lists file in your directory
  - dir - shows you files in your directory
- 4 Initialize the local directory as a Git repository.
  - git init
    - (Command)
- 5 Adding files in your local folder to the repository
  - git add .
    - (for everything in the folder)
  - git add (file name)
    - For the specific files
  - git status
    - Shows which files would be committed

- 6 Commit the files from your local repository
  - git commit -m "First Commit"
- 7 Copying url
  - git branch -M main
  - git remote add origin (HTTPS URL)
- 8 Push your files in

```
            ○   git push -u origin main
    ●  9 Login to Github for access
            ○   It will pop up a browser
```

EXAMPLE FOR CLASS PUSHING

```
echo "# Testing2" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/dcherry317/Testing2.git
git push -u origin main
```

What is Git pull?
Reference video
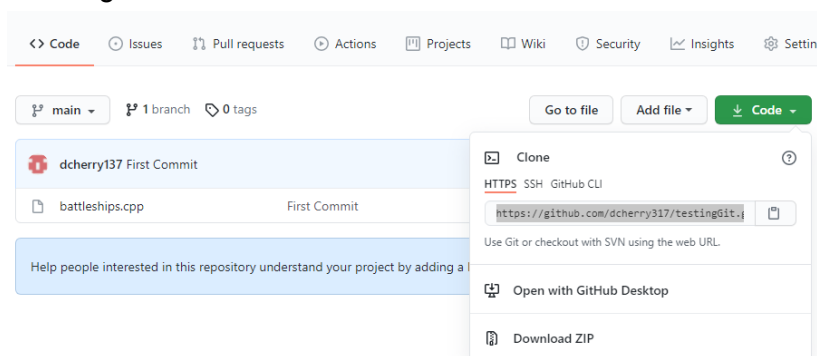https://www.youtube.com/watch?v=z8CYDyFqzp0&ab_channel=Simplilearn

git fetch
-   Downloads content from the required remote repository

git merge
-   Combines multiple sequences of commits into a single branch

Steps

    ● 1. Initialize
            ○   git init

    ●
    ● git pull https://github.com/dcherry317/testingGit.git

- git pull (URL from Cloned directory)

MAKING CHANGES (Commits updates)

- git add .
  - *Adding everything*
- git commit -m "changes made"
  - *(git commit -m "(The Note you want to be added)"*
- *This Updates*
- git remote add origin https://github.com/dcherry317/testingGit.git
  - (THE URL FROM CLONE) ^^^^^^^^
- git remote -v
  - *Shows you what the push and fetch command url are set to*
- git push -u origin master