WEEK 16(Nov. 18th to 22nd):

What is Git?

* A distributed version control system (DVCS) that tracks changes to files over time.
* Enables collaboration on projects by allowing multiple developers to work on the same codebase simultaneously.
* Provides a history of all changes, making it easy to revert to previous versions or compare different versions.

Common Git Commands:

git init: Creates a new Git repository.

git clone: Creates a local copy of a remote repository.

git add: Stages changes to be committed.

git commit: Creates a snapshot of the current state of the repository.

git push: Sends local commits to a remote repository.

git pull: Fetches and merges changes from a remote repository.

git branch: Creates, lists, or deletes branches.

What is GitHub?

* Version control: At its core, GitHub uses Git, a powerful version control system. This allows developers to keep track of changes to their code over time, experiment with different versions, and revert to previous states if needed.
* Collaboration: GitHub facilitates teamwork by enabling multiple developers to work on the same project simultaneously.

How to use GitHub:

1. Create an account: Sign up for a free GitHub account at <https://github.com/>.
2. Create a repository: A repository is a container for your project's files. You can create a new repository or import an existing one.
3. Clone the repository: Download a copy of the repository to your local machine using Git.
4. Make changes: Edit files, add new files, or delete files as needed.
5. Commit changes: Save your changes to your local repository using Git.
6. Push changes: Upload your changes to the remote repository on GitHub.