**Day 6 Assignment 2**

**explain all the git commands.**

**2. Essential Git Commands:**

* **init:** Creates a new Git repository in the current directory.
* **clone <url>:** Creates a local copy (clone) of a remote repository.
* **config:** Sets up Git configuration options (e.g., username, email).
* **add <file>:** Adds changes to files in the staging area, preparing them for commit.
* **commit -m "<message>":** Creates a new commit with a message describing the changes.
* **status:** Shows the status of your working directory, including unstaged changes, staged changes, and untracked files.
* **diff:** Shows the difference between files (e.g., git diff for unstaged changes, git diff HEAD for changes since the last commit).
* **log:** Shows the commit history, including messages, authors, and dates.
* **branch:** Manages branches (create, list, delete, switch).
* **checkout <branch>:** Switches to a different branch, making it the active branch.
* **merge <branch>:** Merges changes from another branch into the current branch, combining development lines.
* **pull:** Fetches changes from the remote repository into your local branch and attempts to merge them.
* **push:** Pushes your local branch commits to the remote repository.
* **tag <tag\_name> <commit\_hash>:** Creates a tag (named reference) for a specific commit.
* **remote:** Manages remote repositories (add, remove, list).
* **stash:** Temporarily stores uncommitted changes for later use.
* **reset:** Modifies the working directory or HEAD (use with caution as it can cause data loss).