Setup Commands:

- git init: Initialize a new Git repository in your current folder.
- git clone <url>: Copy a remote repository to your local machine.

Branching & Merging:

- git branch: List all branches in the repository.
- git branch <branch-name>: Create a new branch.
- git checkout

branch-name>: Switch to a specific branch.
- git checkout -b
branch-name>: Create and switch to a new branch.
- git merge <branch-name>: Merge the specified branch into the current branch.
- git branch -d <branch-name>: Delete a branch.

Staging & Commit:

- git status: Check the status of changes (tracked, untracked files, etc.).
- git add <file>: Stage a file for the next commit.
- git add .: Stage all changes (new, modified, and deleted files).
- git commit -m "message": Commit staged changes with a message.
- git commit -am "message": Add and commit changes in one step (only for modified tracked files).

Pushing & Pulling:

- git push: Push local commits to the remote repository.
- git push origin

branch-name>: Push a specific branch to the remote repository.
- git pull: Fetch and merge changes from the remote repository to your current branch.
- git fetch: Download changes from the remote repository without merging them.

Undoing Changes:

- git reset <file>: Unstage a file (keeps changes in your working directory).
- git reset --hard <commit>: Reset the working directory and index to a specific commit (permanently undo changes).
- git checkout -- <file>: Discard changes in a specific file (restore the last committed version).

Viewing History:

- git log: View the commit history.
- git log --oneline: View a simplified one-line-per-commit log.
- git diff: Show the differences between working directory and the last commit.
- git diff
 Show the differences between your current branch and another branch.

Tagging:

• git tag <tag-name>: Create a tag for the current commit (useful for marking releases).

- git tag -a <tag-name> -m "message": Create an annotated tag with a message.
- git push origin -- tags: Push tags to the remote repository.

Stashing:

- git stash: Save your uncommitted changes temporarily and clean the working directory.
- git stash pop: Apply the stashed changes back to your working directory.
- git stash list: List all stashes.

Remote Commands:

- git remote -v: Show remote repository URLs.
- git remote add <name> <url>: Add a new remote repository.
- git remote rm <name>: Remove a remote repository.

Git Configuration:

- git config --global user.name "Your Name": Set your Git username globally.
- git config --global user.email "you@example.com": Set your Git email globally.
- git config --list: View all Git configurations.