Basic Git Commands

Setup

- git config --global user.name "Your Name"Set your name for commits.
- git config --global user.email "your.email@example.com"

 Set your email for commits.
- git init
 Initialize a new Git repository.

Repository Management

- git clone <repository_url>Clone a repository to your local machine.
- git status
 Check the status of your working directory.
- git logView commit history.

Adding and Committing Changes

- git add <file>Stage a specific file for commit.
- git add .Stage all changes in the current directory.
- git commit -m "Your commit message"
 Commit staged changes with a message.

Branching

- git branch

List all branches.

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.

Merging and Rebasing

git merge
branch_name>Merge a branch into the current branch.

- git rebase <branch_name>

Rebase the current branch onto another branch.

Pushing and Pulling

git push origin
branch_name>Push changes to a remote branch.

- git pull

Fetch and merge changes from the remote repository.

Undoing Changes

- git reset <file>

Unstage a file.

- git checkout -- <file>

Discard changes in a file.

git revert <commit_hash>Revert a specific commit.

Tagging

- git tag <tag_name>Create a tag.
- git push origin <tag_name>Push a tag to the remote repository.

Viewing Changes

- git diff

Show changes in the working directory.

- git diff

 tranch_name>

Show differences between branches.