# git init: Description: Initializes a new Git repository in the current folder.

Usage: git init

Purpose: Starts tracking version control.

# git clone : Description: Clones a repository from a remote server like GitHub.

Usage: git clone <repo-url>

Purpose: Makes a local copy of an existing remote repository.

# git add : Description: Adds changes to the staging area.

Usage: git add <filename>, git add .

Purpose: Prepares files to be committed.

# git commit : Description: Saves staged changes with a message.

Usage: git commit -m "your message"

Purpose: Creates a version snapshot of the staged files.

# git push : Description: Pushes committed changes to a remote repository.

Usage: git push origin main

Purpose: Syncs local commits with remote repository.

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

Usage:

git pull origin main

Purpose: Updates your local branch with remote changes.

# git status : Description: Shows the current state of the working directory.

Usage: git status

Purpose: Helps see which files are staged, modified, or untracked.

# git branch : Description: Lists, creates, or deletes branches.

Usage: git branch git branch <branchname>

Purpose: Helps organize features/fixes.

# git checkout : Description: Switches between branches or restores files.

Usage: git checkout <branchname>

Purpose: Move between branches.

# git merge : Description: Combines one branch into another.

Usage:

git merge <branchname>

Purpose: Integrates changes from one branch into the current branch.

# git reset : Description: Unstages or reverts commits.

Usage: git reset <file> git reset --hard HEAD~1

Purpose: Used to undo changes.

# git log

Description: Shows commit history.

Usage:

git log

Purpose: Tracks the changes made over time.

# git config

Description: Sets configuration for user details, editor, etc.

Usage: git config --global user.name "Your Name" git config --global user.email "you@example.com"

Purpose: Ensures correct authorship on commits.

**12. git revert**

Description: Reverses a specific commit by creating a new commit.  
Usage: git revert <commit-hash>  
Purpose: Safely undoes a commit without altering commit history.