

## Use Case 1: Creating a New Repository

```
git init
```

Initialize a new Git repository in your project folder.

```
git add .
```

Stage all project files.

```
git commit -m "Initial commit"
```

Create first commit with message.

```
git remote add origin <repository-url>
```

Connect local project to remote repository.

```
git branch -M main
```

Rename branch to main.

```
git push -u origin main
```

Push project to remote repository.

## Use Case 2: Downloading (Cloning) a Repository

```
git clone <repository-url>
```

Download remote repository to local machine.

```
cd <repository-folder>
```

Move into the cloned project directory.

## Use Case 3: Updating Local Repository

```
git pull origin main
```

Fetch and merge latest changes from remote branch.

```
git fetch origin
```

Download updates without merging.

## Use Case 4: Updating Remote Repository After Changes

```
git status
```

Check modified files.

```
git add .
```

Stage modified files.

```
git commit -m "Update message"
```

Commit your changes.

```
git push origin main
```

Upload committed changes to remote.

## Use Case 5: Creating and Merging Branches

```
git branch feature-name
```

Create a new branch.

```
git checkout feature-name
```

Switch to the new branch.

```
git merge feature-name
```

Merge feature branch into current branch.

## Use Case 6: Undoing or Fixing Mistakes

```
git checkout -- <file>
```

Discard changes in specific file.

```
git reset --soft HEAD~1
```

Undo last commit but keep changes staged.

```
git reset --hard HEAD
```

Discard all local changes permanently.