

15 GIT COMMANDS

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Demonstrate minimum 15 basic Git command with explanation and screenshot.

1. Git init

The git init command creates a new Git repository.

```
PS E:\Git-Assignment> git init
Initialized empty Git repository in E:/Git-Assignment/.git/
```

2. Identity configuration

One time configuration that you have to do is to provide your name and email id.

The Email Id should be the same that you registered with GitHub

```
git config --global user.name "Abhishek Nayak"
```

```
git config --global user.email " your email ID "
```

3. Git status

The git status command displays the state of the working directory and the staging area

```
PS E:\Git-Assignment> git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  readme.md

nothing added to commit but untracked files present (use "git add" to track)
```

4. Git Commit

The git commit command captures a snapshot of the project's currently staged changes.

```
PS E:\Git-Assignment> git commit -m "This is my first commit"
[master (root-commit) b62ab15] This is my first commit
```

```
PS E:\Git-Assignment> git commit -m "This is my first commit"
[master (root-commit) b62ab15] This is my first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 readme.md
```

5. Git add

The git add command adds a change in the working directory to the staging area.

```
no changes added to commit (use "git add" and/or "git commit -a")
PS E:\Git-Assignment> git add .
PS E:\Git-Assignment> git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   readme.md
        new file:   text1.txt
```

6. Git Branch

See your current branch

```
PS E:\Git-Assignment> git branch
* master
PS E:\Git-Assignment>
```

7. Git change branch to main

```
PS E:\Git-Assignment> git branch -M main
PS E:\Git-Assignment> git branch
* main
```

8. Create a new branch

```
PS E:\Git-Assignment> git branch developer1
PS E:\Git-Assignment> git branch
  developer1
* main
PS E:\Git-Assignment>
```

1. navigate between the branches created by git branch

```
PS E:\Git-Assignment> git checkout developer1
Switched to branch 'developer1'
```

10. Merge Branch

Merge the branches

```
PS E:\Git-Assignment> git merge developer1
Updating c1c2ff9..de492ac
Fast-forward
 abcd.py | 6 +++++
1 file changed, 6 insertions(+)
create mode 100644 abcd.py
```

11. Connect Local repository to main repository

```
PS E:\Git-Assignment> git remote add origin https://github.com/abheshek-nayak/learn-github.git
```

12. See the staging environment

```
PS E:\Git-Assignment> git remote -v
origin https://github.com/abheshek-nayak/learn-github.git (fetch)
origin https://github.com/abheshek-nayak/learn-github.git (push)
```

13. Push the files to repository

```
PS E:\Git-Assignment> git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 226 bytes | 56.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/abheshek-nayak/learn-github.git
 * [new branch]      main -> main
```

14. Cloning a Repository to your local device

```
E:\CLONED FOLDER>git clone https://github.com/abheshek-nayak/learn-github.git
```

15. Git Pull

The Git pull command is used to fetch and merge code changes from the remote repository to the local repository.

```
$ git pull origin main
```