

Git assignment-1

1. Create a new repository

Command: git init

```
PS C:\industrial training\git_assignment_1> git init
Initialized empty Git repository in C:/industrial training/git_assignment_1/.git/
PS C:\industrial training\git_assignment_1> █
```

2. Create a New File

Created a file and used ls command to check it

```
PS C:\industrial training\git_assignment_1> ls

Directory: C:\industrial training\git_assignment_1

Mode                LastWriteTime         Length Name
----                -
-a-----         06-03-2025      16:05             0 testing.py
```

3. Create a Branch

command: git branch branch name

```
PS C:\industrial training\git_assignment_1> git branch dev
PS C:\industrial training\git_assignment_1> git status
On branch master
nothing to commit, working tree clean
PS C:\industrial training\git_assignment_1> git branch
dev
* master
PS C:\industrial training\git_assignment_1> █
```

4. Make Changes in the New Branch

Added a file in new branch

```
PS C:\industrial training\git_assignment_1> git add this_is_from_dev.text
PS C:\industrial training\git_assignment_1> git commit -m"added a file in dev branch"
[dev 0c798ee] added a file in dev branch
1 file changed, 1 insertion(+)
create mode 100644 this_is_from_dev.text
```

5. Create Another Branch (Optional)

It is optional already has created a branch dev so not created a new branch

6. Merge Branches

Command: `git merge file_name`

```
PS C:\industrial training\git_assignment_1> git merge dev
Updating 928a02e..0c798ee
Fast-forward
 this_is_from_dev.text | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 this_is_from_dev.text
PS C:\industrial training\git_assignment_1>
```

7. Pull Changes from Remote

Command: `git pull origin master`

```
PS C:\industrial training\git_assignment_1> git pull origin master
remote: Enumerating objects: 56, done.
remote: Counting objects: 100% (56/56), done.
remote: Compressing objects: 100% (48/48), done.
remote: Total 56 (delta 11), reused 31 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (56/56), 112.46 KiB | 178.00 KiB/s, done.
From https://github.com/Nayan4567/git-assignment-1
 * branch      master      -> FETCH_HEAD
 * [new branch] master      -> origin/master
fatal: refusing to merge unrelated histories
PS C:\industrial training\git_assignment_1> git pull origin master --allow-unrelated-histories
From https://github.com/Nayan4567/git-assignment-1
 * branch      master      -> FETCH_HEAD
Auto-merging testing.py
hint: Waiting for your editor to close the file...
```

```
< GIT_ASSIGNMENT_1
> .git
> javascript_proje... ●
≡ git_nayan A
👤 GIT-NAYAN AW... A
≡ new_feature.txt A
📄 README.md A
🔗 testing.py M
≡ this_is_from_dev.text
≡ this-is-from-dev.... A
```

8. View Git Log and History

Command: `git log --oneline`

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\nayan\OneDrive\git_assignments> git log --oneline
24ab833 (HEAD -> master, origin/master, origin/HEAD) Update testing.py
9eaadd2 Update testing.py
185bab7 (origin/dev, dev) added dev files
423318b added git commands
509ddc6 odifies
f96e7a1 intial commit
PS C:\Users\nayan\OneDrive\git_assignments> █
```

Command: `git reflog`

```
PS C:\industrial training\git_assignment_1> git reflog
928a02e (HEAD -> master) HEAD@{0}: reset: moving to 928a02e
24a3c13 HEAD@{1}: commit: Recovered testing.py file
fc9ad59 HEAD@{2}: revert: 928a02eRevert "testing.py file added"
0c798ee (dev) HEAD@{3}: merge dev: Fast-forward
928a02e (HEAD -> master) HEAD@{4}: checkout: moving from dev to master
0c798ee (dev) HEAD@{5}: commit: added a file in dev branch
928a02e (HEAD -> master) HEAD@{6}: checkout: moving from master to dev
928a02e (HEAD -> master) HEAD@{7}: commit (initial): testing.py file added
```

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9. Git Status and Staging

For status command: `git status`

For adding file: `git add filename`

For commit the file : `git commit –“message”`

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   testing.py

PS C:\industrial training\git_assignment_1> git commit -m"testing.py file added"
[master (root-commit) 928a02e] testing.py file added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 testing.py
PS C:\industrial training\git_assignment_1> git status
On branch master
nothing to commit, working tree clean
PS C:\industrial training\git_assignment_1> █
```

10. Revert and Reset

Revert a file: git revert

```
PS C:\industrial training\git_assignment_1> git revert 928a02e
[master fc9ad59] 928a02eRevert "testing.py file added" print("hello") This reverts commit 928a02e20eb67e6dd26d4d02c5106109cc434219.
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 testing.py
```

Reset a file: git reset --hard

```
PS C:\industrial training\git_assignment_1> git reset --hard 928a02e
HEAD is now at 928a02e testing.py file added
```