

Git Assignment

Resubmission of Assignment After the feedback : Thankyou for the feedback. I have made the requires changes in this file.

1.Link to the repository : <https://github.com/Aayush8730/NucleusTeq-Assignments>

2.Folder Structure inside repository :

NucleusTeq-Assignments : Main Branch

```
| ——— git_assignment
|   |——— file1.txt
|   |——— assignment.png
| ——— readMe.md
```

3.Create new Branch :

> *git branch <branchname>*

Branches:

1. Main
2. Developer
3. Newbie
4. Aayush
5. Demo

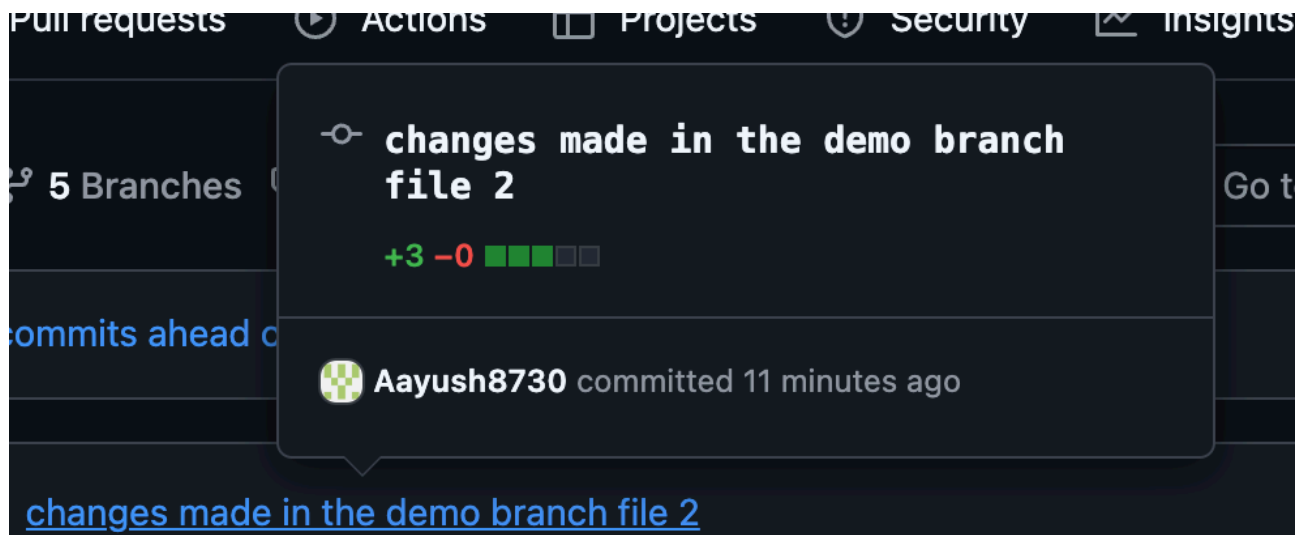
Branch	Updated	Check status	Behind	Ahead	Pull request
demo	now		5	2	...
developer	2 weeks ago		5	2	...
aayush	2 weeks ago		5	1	#1 ...
newbie	2 weeks ago		7	0	...

```

aayushpatidar@Aayushs-MacBook-Air one % git branch
aayush
developer
* main
newbie
aayushpatidar@Aayushs-MacBook-Air one % git checkout aayush
Switched to branch 'aayush'
Your branch is up to date with 'origin/aayush'.
aayushpatidar@Aayushs-MacBook-Air one % git branch demo
aayushpatidar@Aayushs-MacBook-Air one % git branch
* aayush
demo
developer
main
newbie
aayushpatidar@Aayushs-MacBook-Air one % █

```

Also made changes in the new branches made.



4.Merge Branches

Merged the main branch with the newbie branch. Fast forward merge.

> *git merge demo (currently on the branch aayush);*

```

aayushpatidar@Aayushs-MacBook-Air one % git branch
* aayush
demo
developer
main
newbie
aayushpatidar@Aayushs-MacBook-Air one % git merge demo
Already up to date.
aayushpatidar@Aayushs-MacBook-Air one % git checkout demo
Switched to branch 'demo'
aayushpatidar@Aayushs-MacBook-Air one % █

```

5. Pull Changes from Remote

> *git pull origin newbie (on branch demo)*

```
aayushpatidar@Aayushs-MacBook-Air one % git pull origin newbie
From https://github.com/Aayush8730/NucleusTeq-Assignments
* branch          newbie      -> FETCH_HEAD
Already up to date.
```

6. Git status and staging

> *git status*

> *git add . (For staging all the changes)*

> *git add . <file.txt>*

```
aayushpatidar@Aayushs-MacBook-Air one % git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file1.txt

no changes added to commit (use "git add" and/or "git commit -a")
aayushpatidar@Aayushs-MacBook-Air one % git add file1.txt
aayushpatidar@Aayushs-MacBook-Air one %
```

7. Git Log and History

```
aayushpatidar@Aayushs-MacBook-Air one % git log
commit 1831a40f3d381297bd57c05b7f6d82f93b75f1d2 (HEAD -> main, origin/main)
Author: Aayush Patidar <aayushp717@gmail.com>
Date:   Wed Feb 19 17:50:01 2025 +0530

    Revert "undo"

    This reverts commit 14dc3dccf7d5fb32b6224892e7a23e2d6edaae3b.

commit 8674f721b1822c8ce5b3972759efcbe01a0fa077
Author: Aayush Patidar <aayushp717@gmail.com>
Date:   Tue Feb 18 22:32:09 2025 +0530

    vsdfsd

commit 14dc3dccf7d5fb32b6224892e7a23e2d6edaae3b
Author: Aayush Patidar <aayushp717@gmail.com>
Date:   Tue Feb 18 22:27:22 2025 +0530

    undo

commit bd35aaf809b68517684e3005d452653b816039f6
Author: Aayush Patidar <aayushp717@gmail.com>
Date:   Tue Feb 18 22:24:14 2025 +0530

    last thing

commit 035c64cfd97a83285de44c84c0cc2652e9434055
Merge: 25c81e5 3492f6e
Author: Aayush Patidar <aayushp717@gmail.com>
Date:   Tue Feb 18 21:58:03 2025 +0530

    Merge branch 'newbie'

commit 3492f6e7b879ba7f25307fa219746e34f1851c35 (origin/newbie, newbie)
```

```
aayushpatidar@Aayushs-MacBook-Air one % git log --oneline --graph --all
* 1831a40 (HEAD -> main, origin/main) Revert "undo"
* 8674f72 vsdfsd
* 14dc3dc undo
* bd35aaf last thing
| * f7ca0af (origin/aayush, aayush) added file2 in aayush branch
|/
* 035c64c Merge branch 'newbie'
| \
| * 3492f6e (origin/newbie, newbie) generate random number
* | 25c81e5 done something
|/
* 61f3de8 branch created by newbie
* a44fbe7 (origin/developer, developer) change made in developer branch
* ab895fc first commit
aayushpatidar@Aayushs-MacBook-Air one % █
```

8.Revert and Reset

```
aayushpatidar@Aayushs-MacBook-Air one % git revert 14dc3dc
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

> *git reset –hard <commit hash>*
> *git revert <commit hash>*

```
aayushpatidar@Aayushs-MacBook-Air one % git reset 1831a40
Unstaged changes after reset:
M      git_assignment/one/file1.txt
aayushpatidar@Aayushs-MacBook-Air one % █
```