Git Assignment - Om Chhayala
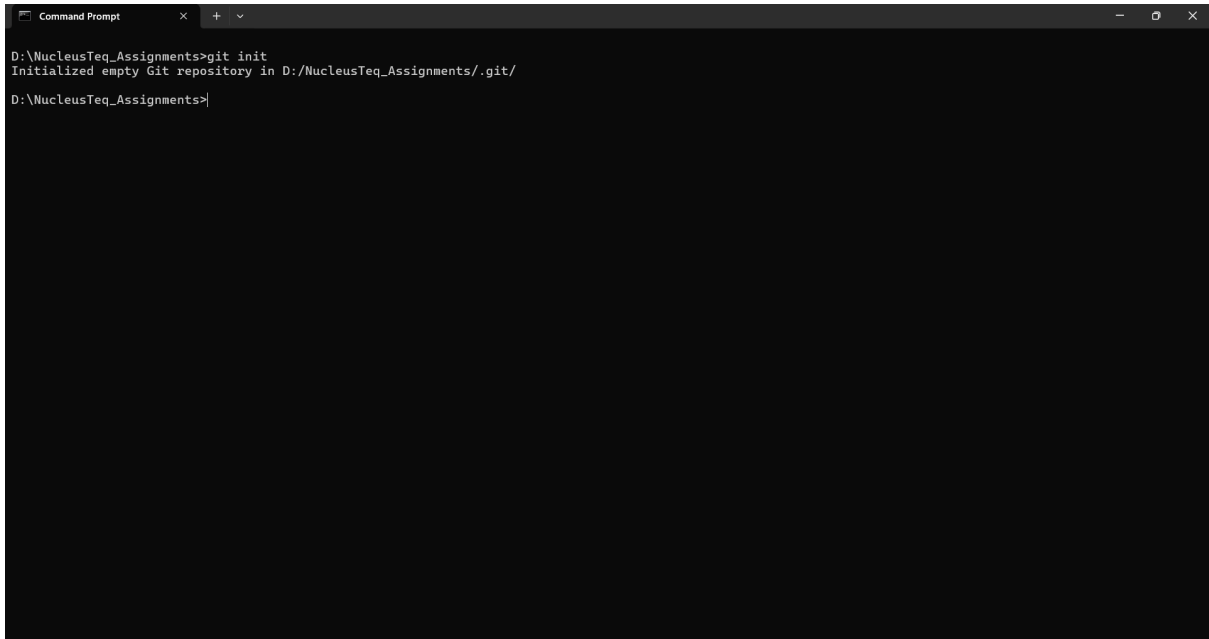
1.   Create a New Repository

Git Commands Used -
- git init

```
D:\NucleusTeq_Assignments>git init
Initialized empty Git repository in D:/NucleusTeq_Assignments/.git/

D:\NucleusTeq_Assignments>
```

2.   Create a New File
Commands Used -
- Type null > sample_file.txt

```
D:\NucleusTeq_Assignments\Git_Assignment>type nul > sample_file_2.txt

D:\NucleusTeq_Assignments\Git_Assignment>
```

3. Create a Branch
   Git Command Used
   - git checkout -b new_branch

```
D:\NucleusTeq_Assignments\Git_Assignment>git checkout -b new_branch
Switched to a new branch 'new_branch'

D:\NucleusTeq_Assignments\Git_Assignment>
```

4. Make Changes in the New Branch
   - Changes done in the new branch - Create a new file as sample_file_2.txt

```
D:\NucleusTeq_Assignments\Git_Assignment>type nul > sample_file_2.txt

D:\NucleusTeq_Assignments\Git_Assignment>
```

5. Create Another Branch (Optional)
   ● Created a new branch as new_branch_3.txt

```
D:\NucleusTeq_Assignments\Git_Assignment>git checkout -b new_branch_3
Switched to a new branch 'new_branch_3'

D:\NucleusTeq_Assignments\Git_Assignment>
```

6. Merge Branches
   Git Command Used
   ● git merge new_branch_2

```
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$ git branch
  dev_branch
* master
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$ git merge dev_branch
Updating 7361178..d71c8f2
Fast-forward
 main2.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 main2.txt
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$
```

7. Pull Changes from Remote
   Git Command Used
   ● git pull origin main

```
(base) PS D:\NucleusTeq_Assignments> git pull origin main
```

8.   View Git Log and History
     Git Command Used
     ● git log

```
(base) PS D:\NucleusTeq_Assignments> git log
commit 4691c12111b2e0df596c469cf6ed58d555f686dd (HEAD -> main)
Author: Om-chhayala <om20082003@gmail.com>
Date:   Wed Feb 19 00:17:38 2025 +0530

    initial commit
(base) PS D:\NucleusTeq_Assignments>
```

9.   Git Status and Staging
     Git Commands Used
     ● git status
     ● git add .

```
(base) PS D:\NucleusTeq_Assignments> git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        new_folder/

nothing added to commit but untracked files present (use "git add" to track)
(base) PS D:\NucleusTeq_Assignments> git add .
(base) PS D:\NucleusTeq_Assignments> git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_folder/New Text Document.txt

(base) PS D:\NucleusTeq_Assignments>
```

10. Revert and Reset
     Git Command Used
     ● git reset --hard 8a106ccee5f376cbeefd98dfb5d217be2bf2d21c
     ● git revert 8a106ccee5f376cbeefd98dfb5d217be2bf2d21c

```
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$ git reset --hard 8a106ccee5f376cbeefd98dfb5d217be2bf2d21c
HEAD is now at 8a106cc work on index
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$
```

```
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$ git revert 8a106ccee5f376cbeefd98dfb5d217be2bf2d21c
[master f2caa56] Revert "work on index"
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 index.txt
om@DESKTOP-QM8LVEL:/mnt/e/git_assignment_other$
```