

Git Assignment – 1

Git Repository Details:

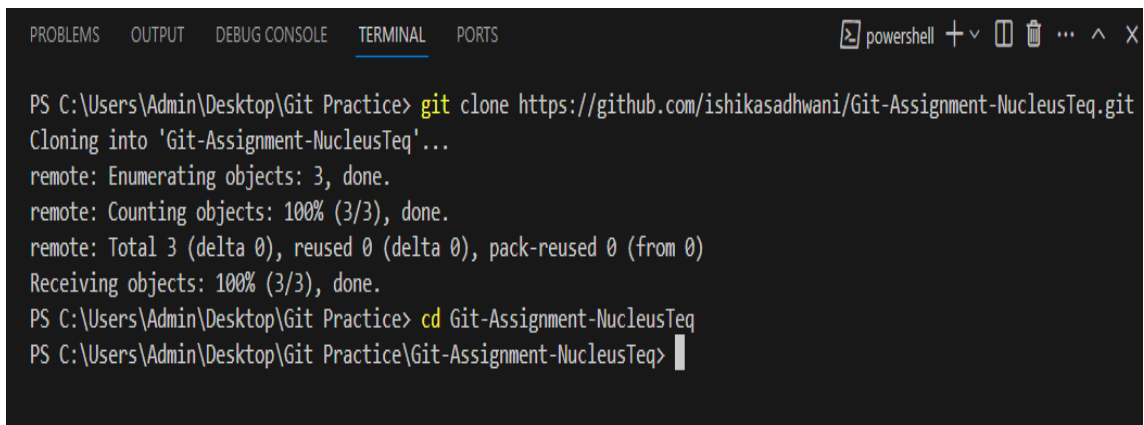
- Repository Name: Git-Assignment-NucleusTeq
- GitHub Repository Link: <https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq>

Assignment:

1. Create a New Repository:

Commands:

- `git clone https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq`
- `cd Git-Assignment-NucleusTeq`



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + v [icon] [icon] ... ^ X

PS C:\Users\Admin\Desktop\Git Practice> git clone https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq.git
Cloning into 'Git-Assignment-NucleusTeq'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
PS C:\Users\Admin\Desktop\Git Practice> cd Git-Assignment-NucleusTeq
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```

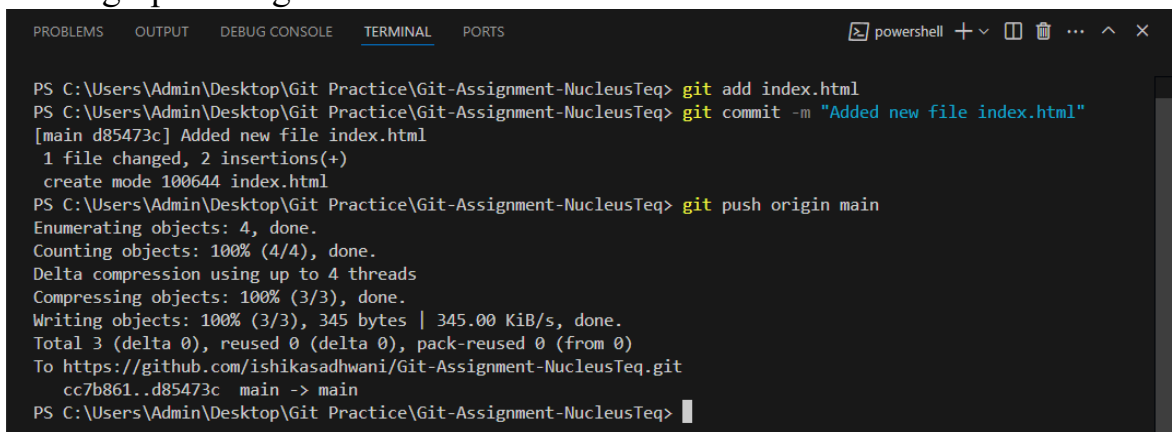
2. Create a New File:

Created a new file “index.html” in vscode.

Staged and committed changes.

Commands:

- `git add index.html`
- `git commit -m “Added a new file index.html”`
- `git push origin main`



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + v [icon] [icon] ... ^ X

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git add index.html
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git commit -m "Added new file index.html"
[main d85473c] Added new file index.html
1 file changed, 2 insertions(+)
create mode 100644 index.html
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq.git
cc7b861..d85473c main -> main
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```

3. Create a Branch:

Created a branch feature1

Commands:

- `git checkout -b feature1`
- `git branch`

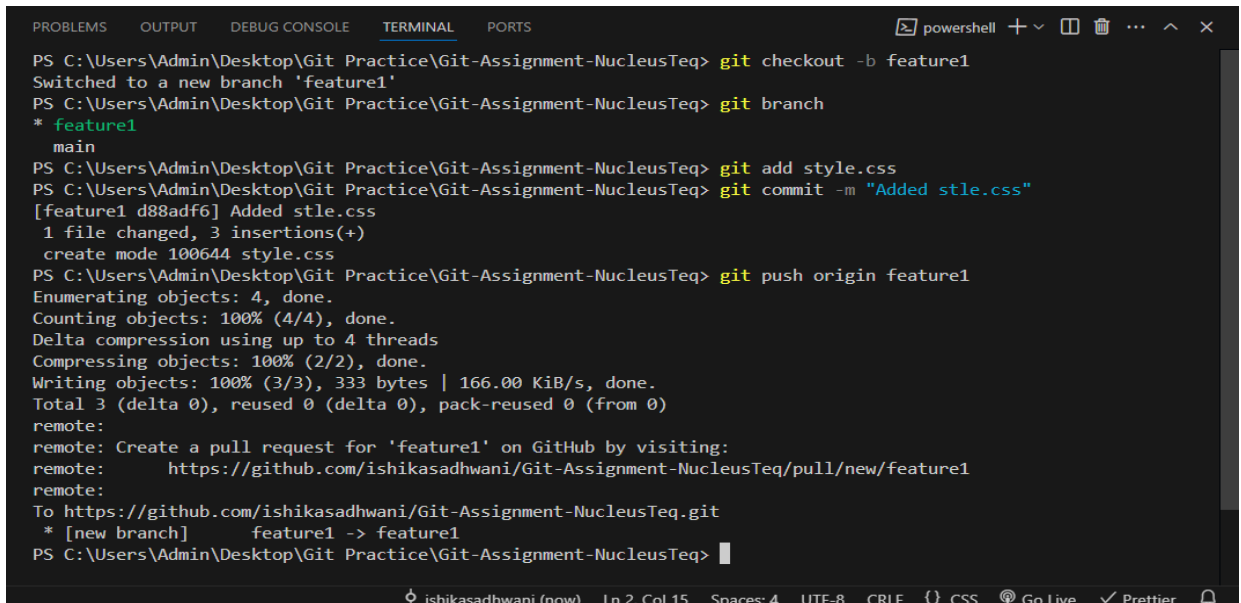
4. Make changes in new Branch:

Added a new file style.css in feature1.

Staged and Committed the changes.

Commands:

- `git add style.ss`
- `git commit -m "Added style.css"`
- `git push origin feature1`



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git checkout -b feature1
Switched to a new branch 'feature1'
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git branch
* feature1
main
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git add style.css
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git commit -m "Added stle.css"
[feature1 d88adf6] Added stle.css
1 file changed, 3 insertions(+)
create mode 100644 style.css
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git push origin feature1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 333 bytes | 166.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature1' on GitHub by visiting:
remote: https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq/pull/new/feature1
remote:
To https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq.git
* [new branch] feature1 -> feature1
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```

5. Create another Branch:

Created another branch and made changes.

Staged and committed the changes.

Commands:

- `git checkout -b feature2`
- `git add .`
- `git commit -m "Updated index.html"`
- `git push origin feature2`

```
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git checkout -b feature2
Switched to a new branch 'feature2'
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git branch
  feature1
* feature2
  main
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git add .
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git commit -m "Updated index.html"
[feature2 d6a6d41] Updated index.html
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git push origin feature2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 375 bytes | 125.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature2' on GitHub by visiting:
remote:   https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq/pull/new/feature2
remote:
To https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq.git
 * [new branch]   feature2 -> feature2
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> |
```

6. Merge Branches:

- Merged feature1 branch into main branch.

Commands:

- git checkout main
- git diff feature1
- git merge feature1

- Merged feature2 branch into main.

Commands:

- git checkout main
- git diff feature2
- git merge feature2

The screenshot shows the Visual Studio Code interface with the Explorer, Git Practice, and Terminal panels. The Explorer panel shows the file structure with 'index.html' and 'style.css' selected. The Git Practice panel shows the commit history. The Terminal panel shows the following commands and output:

```
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git branch
feature1
* feature2
main

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git diff feature1
diff --git a/style.css b/style.css
deleted file mode 100644
index 8cddc7a..0000000
--- a/style.css
+++ /dev/null
@@ -1,3 +0,0 @@
-p {
-  color: cyan;
-}
```

The output shows that the 'feature1' branch is up to date with 'origin/main'. The diff shows that 'style.css' was deleted in 'feature1' compared to 'main'.

The screenshot shows the Visual Studio Code interface with the Terminal panel. The Terminal panel shows the following commands and output:

```
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git diff feature2
diff --git a/index.html b/index.html
index 3a83b6c..b4e9e97 100644
--- a/index.html
+++ b/index.html
@@ -1,2 +1,2 @@
<h2>Git Assignment - 1</h2>
-<p>Practicing git commands.</p>
+<p>Learning git commands.</p>

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git merge feature2
Updating d88adf6..d6a6d41
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```

The output shows that 'feature2' is ahead of 'main'. The diff shows that 'index.html' was modified in 'feature2' compared to 'main'. The merge command successfully merged 'feature2' into 'main'.

7. Pull changes from remote:

Commands:

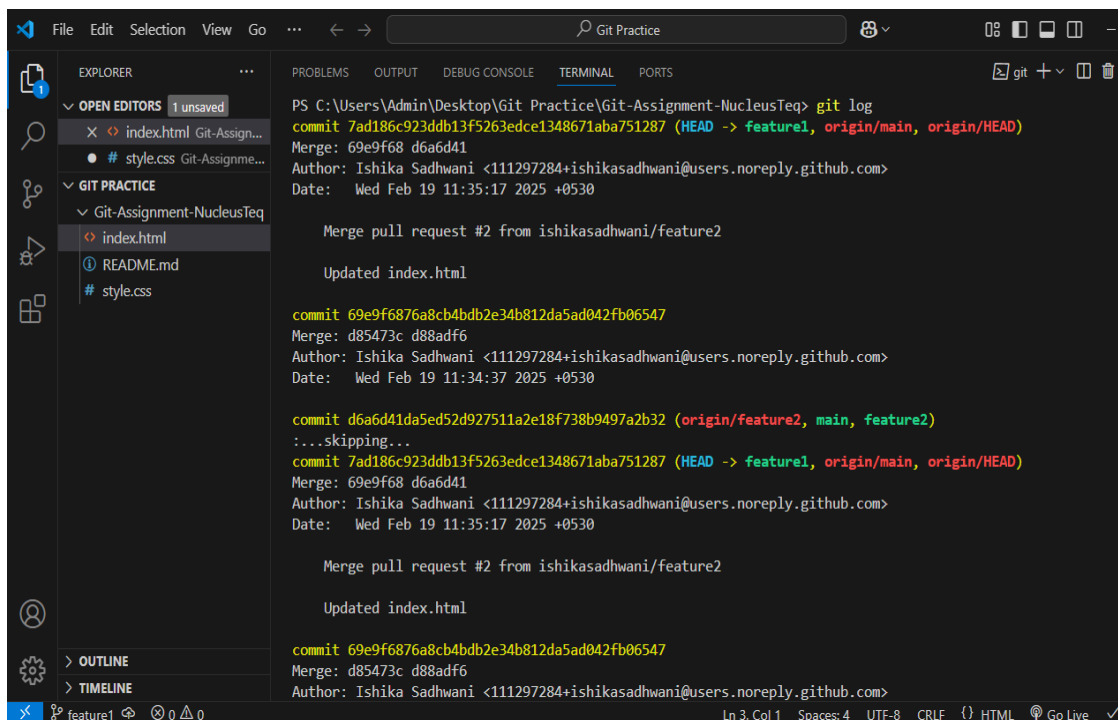
- git pull origin main

```
Switched to branch 'feature1'
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git pull origin main
remote: Enumerating objects: 2, done.
remote: Counting objects: 100% (2/2), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (2/2), 1.76 KiB | 56.00 KiB/s, done.
From https://github.com/ishikasadhvani/Git-Assignment-NucleusTeq
* branch      main      -> FETCH_HEAD
   d85473c..7ad186c  main  -> origin/main
Updating d88adf6..7ad186c
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```

8. View git log and history:

Commands:

- git log



```
File Edit Selection View Go ... < > Git Practice
EXPLORER
  OPEN EDITORS 1 unsaved
    index.html Git-Assign...
    # style.css Git-Assignme...
  GIT PRACTICE
    Git-Assignment-NucleusTeq
      index.html
      README.md
      # style.css
  OUTLINE
  TIMELINE

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git log
commit 7ad186c923ddb13f5263edce1348671aba751287 (HEAD -> feature1, origin/main, origin/HEAD)
Merge: 69e9f68 d6a6d41
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
Date: Wed Feb 19 11:35:17 2025 +0530

Merge pull request #2 from ishikasadhvani/feature2

Updated index.html

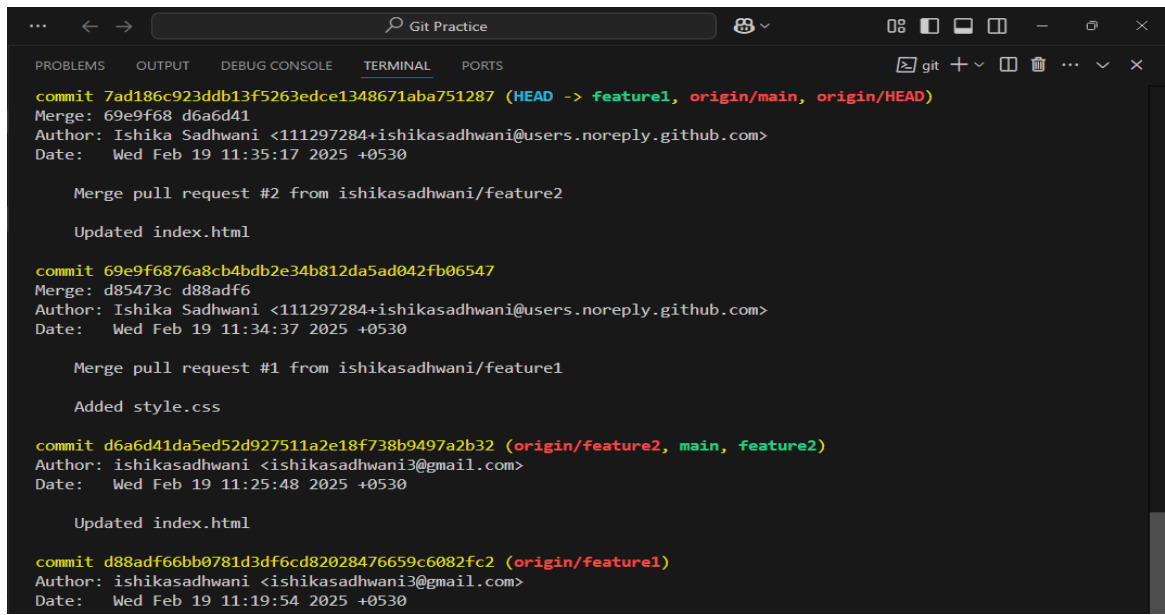
commit 69e9f6876a8cb4bdb2e34b812da5ad042fb06547
Merge: d85473c d88adf6
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
Date: Wed Feb 19 11:34:37 2025 +0530

commit d6a6d41da5ed52d927511a2e18f738b949a2b32 (origin/feature2, main, feature2)
...skipping...
commit 7ad186c923ddb13f5263edce1348671aba751287 (HEAD -> feature1, origin/main, origin/HEAD)
Merge: 69e9f68 d6a6d41
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
Date: Wed Feb 19 11:35:17 2025 +0530

Merge pull request #2 from ishikasadhvani/feature2

Updated index.html

commit 69e9f6876a8cb4bdb2e34b812da5ad042fb06547
Merge: d85473c d88adf6
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
```



A screenshot of a VS Code terminal window titled "Git Practice". The terminal shows a series of Git commit and merge messages. The messages are as follows:

```
commit 7ad186c923ddb13f5263edce1348671aba751287 (HEAD -> feature1, origin/main, origin/HEAD)
Merge: 69e9f68 d6a6d41
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
Date: Wed Feb 19 11:35:17 2025 +0530

Merge pull request #2 from ishikasadhvani/feature2

Updated index.html

commit 69e9f6876a8cb4bdb2e34b812da5ad042fb06547
Merge: d85473c d88adf6
Author: Ishika Sadhwani <111297284+ishikasadhvani@users.noreply.github.com>
Date: Wed Feb 19 11:34:37 2025 +0530

Merge pull request #1 from ishikasadhvani/feature1

Added style.css

commit d6a6d41da5ed52d927511a2e18f738b9497a2b32 (origin/feature2, main, feature2)
Author: ishikasadhvani <ishikasadhvani3@gmail.com>
Date: Wed Feb 19 11:25:48 2025 +0530

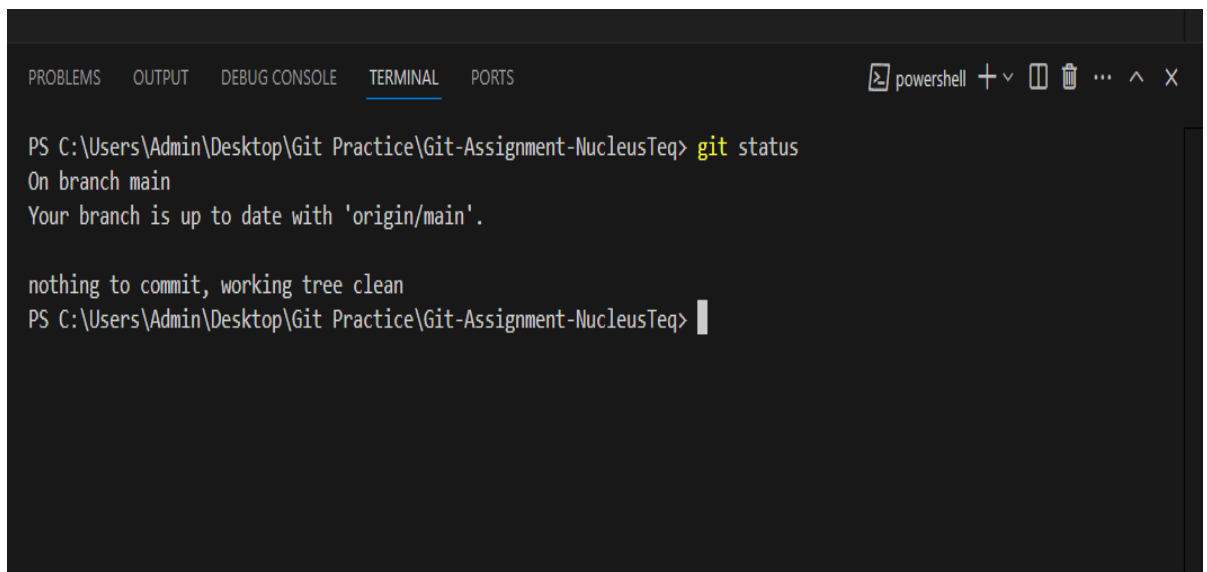
Updated index.html

commit d88adf66bb0781d3df6cd82028476659c6082fc2 (origin/feature1)
Author: ishikasadhvani <ishikasadhvani3@gmail.com>
Date: Wed Feb 19 11:19:54 2025 +0530
```

9. Git status and staging:

Commands:

- git add .
- git status



A screenshot of a PowerShell terminal window. The terminal shows the output of the `git status` command. The output is as follows:

```
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git status
On branch main
Your branch is up to date with 'origin/main'.

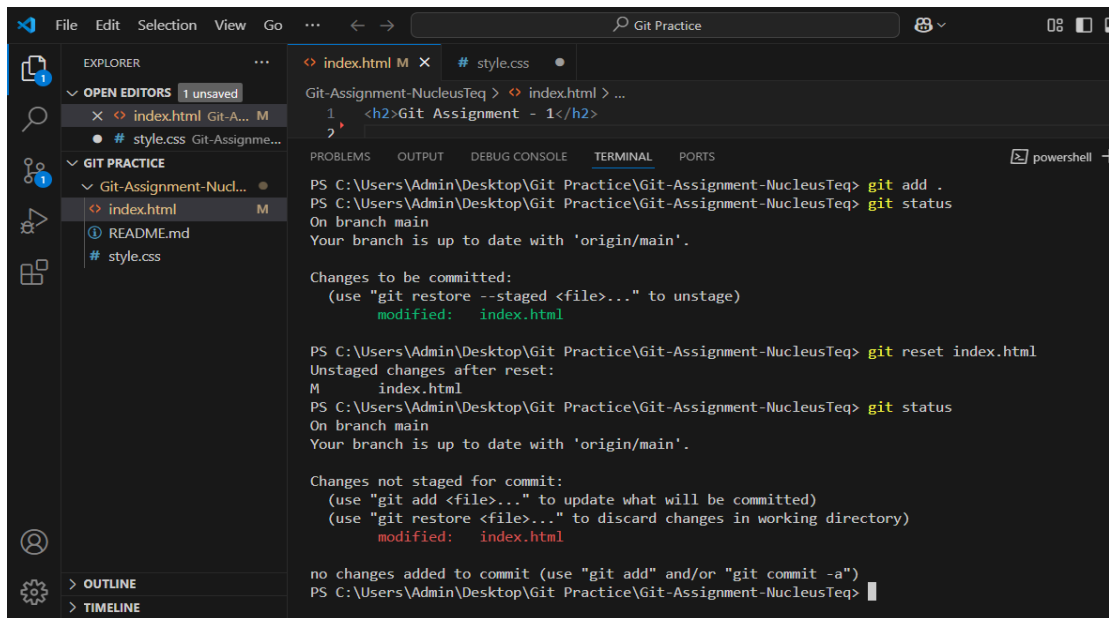
nothing to commit, working tree clean
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> |
```

10. Revert and Reset

Unstaged changes.

Commands:

- `git reset index.html`



The screenshot shows the Visual Studio Code interface with a terminal window open. The Explorer sidebar on the left shows the file structure of a project named 'Git Practice', including 'index.html' and 'style.css'. The main editor area shows the content of 'index.html'. The terminal window displays the following commands and output:

```
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git add .
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> git reset index.html
Unstaged changes after reset:
M       index.html
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq> 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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\Admin\Desktop\Git Practice\Git-Assignment-NucleusTeq>
```