

1. (i)

```
C:\Dev tools\PJP>git init Assignment_week1
Initialized empty Git repository in C:/Dev tools/PJP/Assignment_week1/.git/

C:\Dev tools\PJP>git add .
fatal: not a git repository (or any of the parent directories): .git


C:\Dev tools\PJP>cd Assignment_week1

C:\Dev tools\PJP\Assignment_week1>git status
On branch master

No commits yet


nothing to commit (create/copy files and use "git add" to track)
```


(ii)

Owner \*  soorya4992 / Repository name \* Assignment\_week1 ✓

Great repository names are: Assignment\_week1 is available. Inspiration? How about **improved-spork**?

Description (optional)

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

```
C:\Dev tools\PJP\Assignment_week1>git remote add origin https://github.com/soorya4992/Assignment_week1.git

C:\Dev tools\PJP\Assignment_week1>git branch -M main

C:\Dev tools\PJP\Assignment_week1>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 234 bytes | 78.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/soorya4992/Assignment_week1.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

C:\Dev tools\PJP\Assignment_week1>
```

(iii)

```
C:\Dev tools\PJP\Assignment_week1>git branch
* main

C:\Dev tools\PJP\Assignment_week1>

C:\Dev tools\PJP\Assignment_week1>git branch QA

C:\Dev tools\PJP\Assignment_week1>git branch Delivery

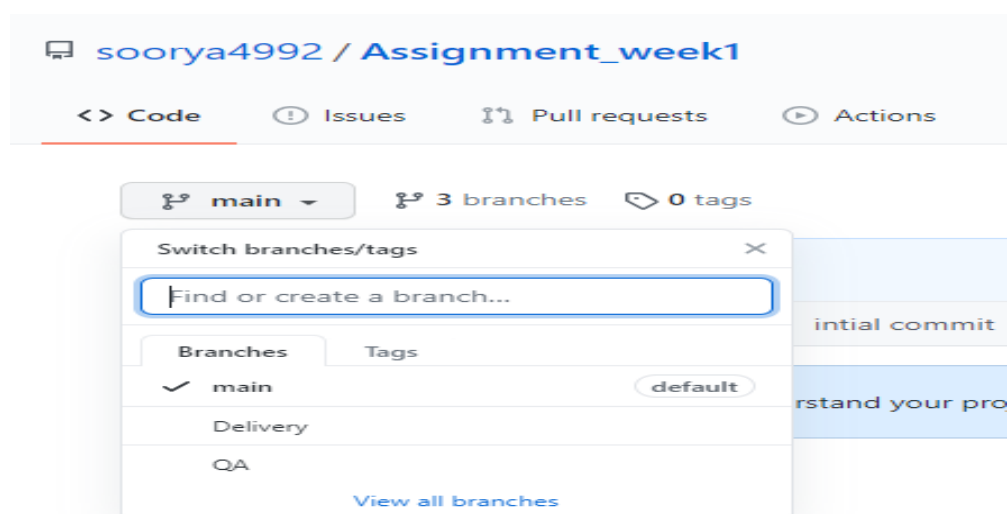
C:\Dev tools\PJP\Assignment_week1>git branch
  Delivery
  QA
* main

C:\Dev tools\PJP\Assignment_week1>

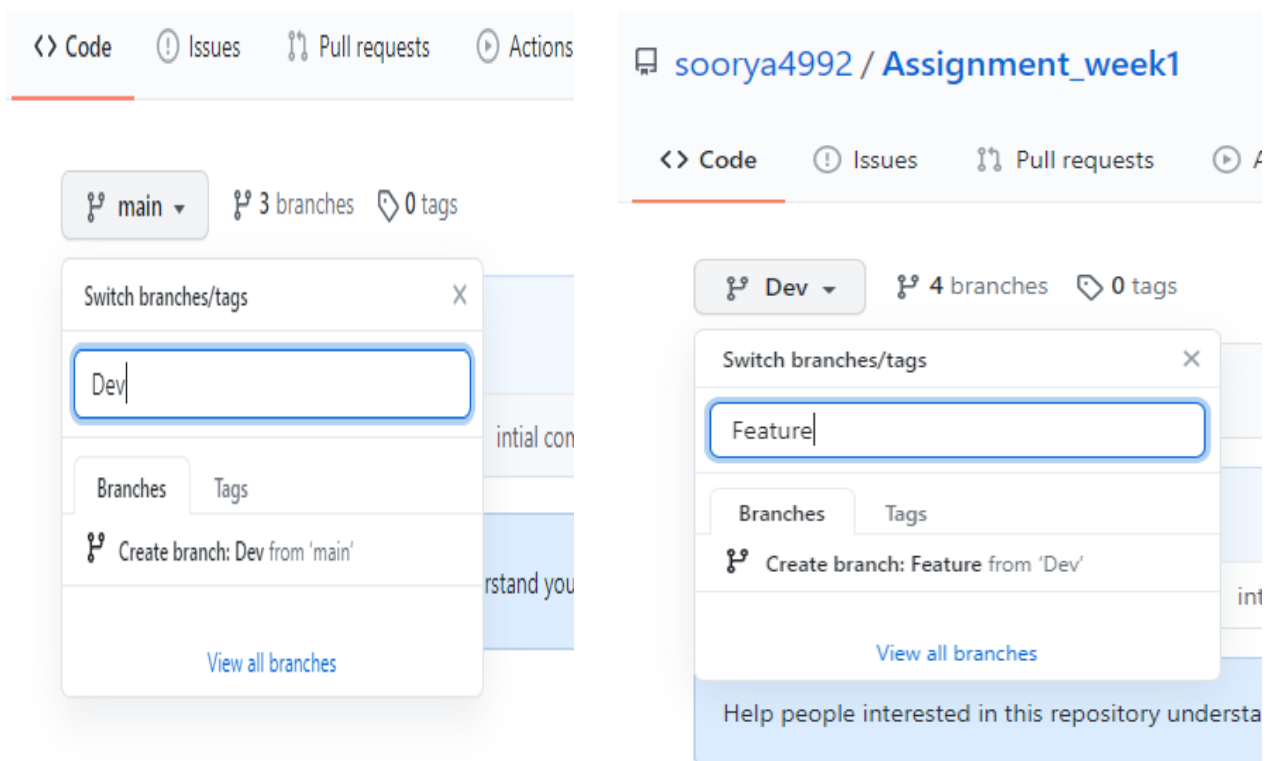
C:\Dev tools\PJP\Assignment_week1>git push -u origin QA
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'QA' on GitHub by visiting:
remote:   https://github.com/soorya4992/Assignment_week1/pull/new/QA
remote:
To https://github.com/soorya4992/Assignment_week1.git
 * [new branch]      QA -> QA
Branch 'QA' set up to track remote branch 'QA' from 'origin'.

C:\Dev tools\PJP\Assignment_week1>git push -u origin Delivery
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'Delivery' on GitHub by visiting:
remote:   https://github.com/soorya4992/Assignment_week1/pull/new/Delivery
remote:
To https://github.com/soorya4992/Assignment_week1.git
 * [new branch]      Delivery -> Delivery
Branch 'Delivery' set up to track remote branch 'Delivery' from 'origin'.

C:\Dev tools\PJP\Assignment_week1>
```



(iv)



```
C:\Dev tools\PJP\Assignment_week1>git pull
From https://github.com/soorya4992/Assignment_week1
* [new branch]      Dev      -> origin/Dev
* [new branch]      Feature   -> origin/Feature
Already up to date.
```

(v&vi)

```
C:\Dev tools\PJP\Assignment_week1>git checkout Feature
Switched to a new branch 'Feature'
Branch 'Feature' set up to track remote branch 'Feature' from 'origin'.

C:\Dev tools\PJP\Assignment_week1>git status
On branch Feature
Your branch is up to date with 'origin/Feature'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    File1.txt
    Folder1/

nothing added to commit but untracked files present (use "git add" to track)
C:\Dev tools\PJP\Assignment_week1>git add .

C:\Dev tools\PJP\Assignment_week1>git commit -m "files and folders added"
[Feature d216297] files and folders added
 2 files changed, 2 insertions(+)
 create mode 100644 File1.txt
 create mode 100644 Folder1/File1.txt

C:\Dev tools\PJP\Assignment_week1>git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 452 bytes | 113.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/soorya4992/Assignment_week1.git
   0c58670..d216297  Feature -> Feature

C:\Dev tools\PJP\Assignment_week1>
```

(vii)

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: Dev ← compare: Feature ✓ Able to merge. These branches can be automatically merged.

files and folders added

Write Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ ☑ @ ↗ ↶

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Add more commits by pushing to the **Feature** branch on [soorya4992/Assignment\\_week1](#).

Continuous integration has not been set up

GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

✓ This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Write Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ ☑ @ ↗ ↶

Dev had recent pushes less than a minute ago

Compare & pull request

Dev 5 branches 0 tags

Go to file Add file Code

This branch is 2 commits ahead, 1 commit behind main.

Pull request Compare

soorya4992 Merge pull request #1 from soorya4992/Feature 1413985 15 seconds ago 3 commits

Folder1	files and folders added	2 minutes ago
File1.txt	files and folders added	2 minutes ago
Initial Commit.txt	initial commit	11 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

(viii)

```
C:\Dev tools\PJP\Assignment_week1>git checkout Dev
Switched to branch 'Dev'
Your branch is up to date with 'origin/Dev'.

C:\Dev tools\PJP\Assignment_week1>git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 633 bytes | 21.00 KiB/s, done.
From https://github.com/soorya4992/Assignment_week1
   0c58670..1413985  Dev          -> origin/Dev
Updating 0c58670..1413985
Fast-forward
 File1.txt          | 1 +
 Folder1/File1.txt | 1 +
 2 files changed, 2 insertions(+)
 create mode 100644 File1.txt
 create mode 100644 Folder1/File1.txt

C:\Dev tools\PJP\Assignment_week1>git checkout Feature
Switched to branch 'Feature'
Your branch is up to date with 'origin/Feature'.

C:\Dev tools\PJP\Assignment_week1>git pull
Already up to date.

C:\Dev tools\PJP\Assignment_week1>
```

(ix)

Checkout: Checks for Updates in the Branch but it doesn't merge

Pull: It checks for Updates in branch and merges them.

(X)

Assignment\_week1 / File1.txt in Dev

<> Edit file

Preview changes

1 This is file 1 in Feature branch

2 Updating through remote for merge

3

File1.txt - Notepad

File Edit Format View Help

This is file 1 in Feature branch

Updating same file for merge conflict in Dev Branch

```
C:\Dev tools\PJP\Assignment_week1>git pull
Auto-merging File1.txt
CONFLICT (content): Merge conflict in File1.txt
Automatic merge failed; fix conflicts and then commit the result.

C:\Dev tools\PJP\Assignment_week1>
```

```
C:\Dev tools\PJP\Assignment_week1>git commit -m "merge"
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
U      File1.txt

C:\Dev tools\PJP\Assignment_week1>git add File1.txt

C:\Dev tools\PJP\Assignment_week1>git commit -m "merge"
[Dev 4847ea3] merge

C:\Dev tools\PJP\Assignment_week1>
```

## Comparing changes

base: Dev ← compare: Feature

✖ Can't automatically merge. Don't worry, you can still create the pull request.

merge conflict #2

No description available

View pull request

1 commit

1 file changed

0 comments

1 contributor

Commits on Mar 10, 2021

merge conflict

b0d7c1d

Showing 1 changed file with 1 addition and 0 deletions.

Unified Split

File1.txt

1 This is file 1 in Feature branch

2 <<<<<< Feature

3 File Updation in Dev Branch for merge

4 |=====

5 Updating through remote for merge

6 >>>>>> Dev

7

## merge conflict #2

Resolving conflicts between `Feature` and `dev` and committing changes → `Feature`

[Commit merge](#)

1 conflicting file

File1.txt  
File1.txt


File1.txt  
1 This is file 1 in Feature branch  
2 Updating through remote for merge  
3


✓ Resolved

(Xi)










## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

 base: QA ← compare: Dev ✓ **Able to merge.** These branches can be automatically merged.

 Dev To QA

Write Preview

H B I         


Leave a comment


Attach files by dragging & dropping, selecting or pasting them.

[Create pull request](#)










## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

 base: main ← compare: Delivery ✓ **Able to merge.** These branches can be automatically merged.

 Delivery to Main


Write Preview

H B I         

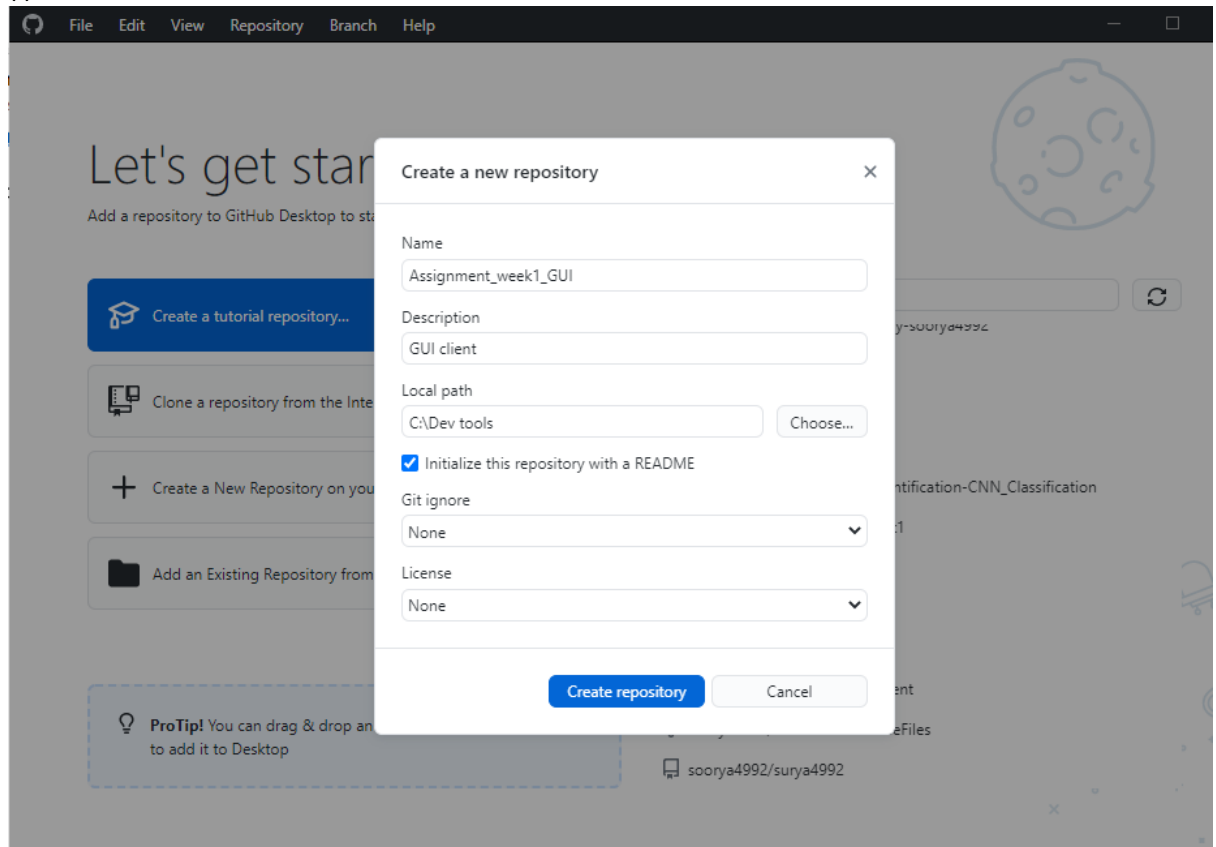
Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

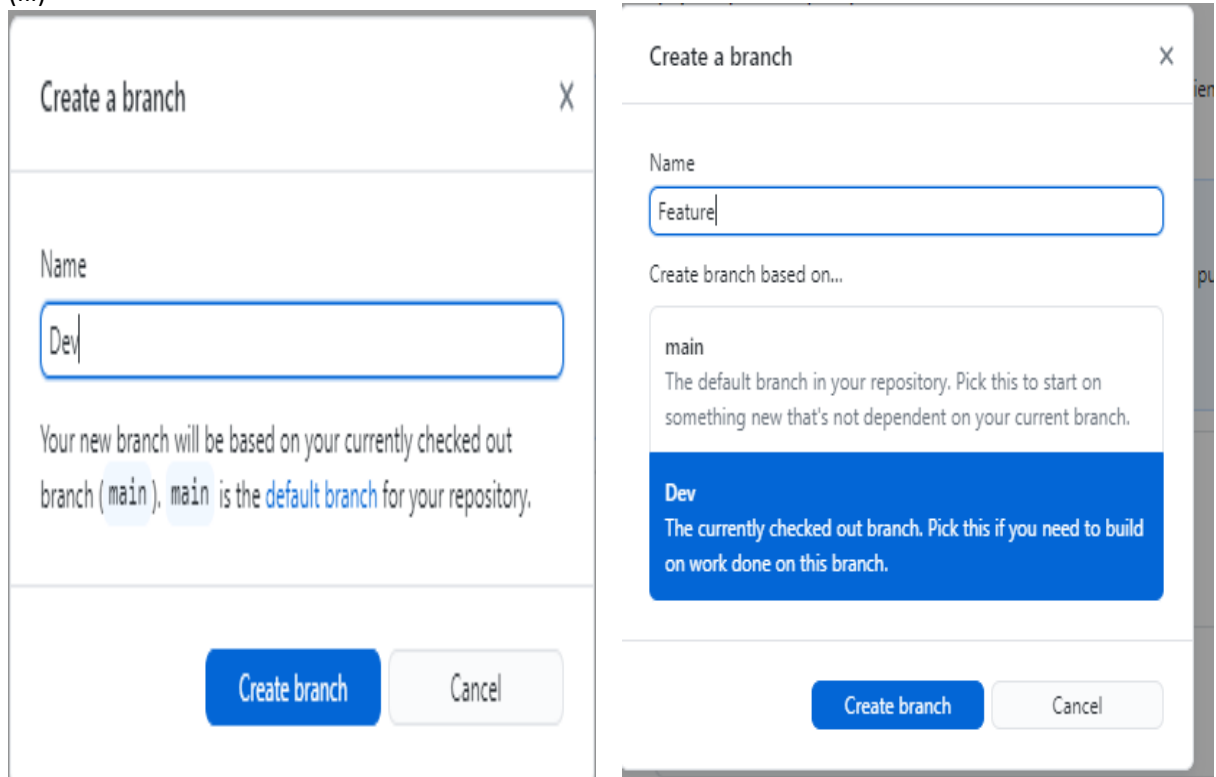
[Create pull request](#)

 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

2. (i)



(iii)





(ii)

Publish repository

×

GitHub.com

GitHub Enterprise

Name

Assignment\_week1\_GUI

Description

GUI client

☐ Keep this code private

Publish repository

Cancel

(v&vi)

The screenshot displays the GitHub Desktop application interface during a commit process. The top section shows the 'Changes' tab with two files listed: 'File1.txt' and 'Folder1\File1.txt', both marked with a green plus icon. The 'Commit to Feature' button is prominent. Below this, the 'Files and Folders Added' section is empty. The bottom status bar indicates the current repository is 'Assignment\_week1\_GUI' and the current branch is 'Dev'. The merge summary at the bottom shows a green checkmark and states: 'This will merge 1 commit from Feature into Dev'. The 'Merge into Dev' button is visible.

(vii)

Create a Pull Request from your current branch

The current branch ( Feature ) is already published to GitHub. Create a pull request to propose and collaborate on your changes.

Branch menu or **Ctrl R**

Create Pull Request

(xi)

 soorya4992 / Assignment\_week1\_GUI


<> Code

! Issues

 Pull requests

▶ Actions

 Projects

 Wiki

Label issues and pull requests


Now, GitHub will help potential first-time

Filters ▾

🔍 is:pr is:closed

✕ Clear current search query, filters, and sorts

☐  0 Open ✓ 4 Closed

☐  Delivery


#4 by soorya4992 was merged 12 seconds ago

☐  Qa

#3 by soorya4992 was merged 31 seconds ago

☐  Dev

#2 by soorya4992 was merged 1 minute ago

☐  Update File1.txt

#1 by soorya4992 was merged 1 minute ago

3. I)

```
C:\Dev tools\PJP\Assignment_week1>git reset HEAD~1
Unstaged changes after reset:
D      File1.txt
```

```
C:\Dev tools\PJP\Assignment_week1>
```

```
C:\Dev tools\PJP\Assignment_week1>git reset --hard HEAD~1
HEAD is now at 3de60ac delete file
```

```
C:\Dev tools\PJP\Assignment_week1>git reset --soft 3de60ac47e72c06bef67de8b741a0244abb69dfa
```

```
C:\Dev tools\PJP\Assignment_week1>git status
On branch Feature
Your branch and 'origin/Feature' have diverged,
and have 1 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)
```

```
nothing to commit, working tree clean
```

```
C:\Dev tools\PJP\Assignment_week1>git log
commit 3de60ac47e72c06bef67de8b741a0244abb69dfa (HEAD -> Feature)
Author: surya <surya4992@gmail.com>
Date:   Wed Mar 10 18:22:47 2021 +0530

    delete file
```

(ii)

```
C:\Dev tools\PJP\Assignment_week1>git status
On branch Feature
Your branch is up to date with 'origin/Feature'.

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")
```

```
C:\Dev tools\PJP\Assignment_week1>git stash
Saved working directory and index state WIP on Feature: 7309949 small changes
```

```
C:\Dev tools\PJP\Assignment_week1>git stash list
stash@{0}: WIP on Feature: 7309949 small changes
```

```
C:\Dev tools\PJP\Assignment_week1>
```

(iii)

```
C:\Dev tools\PJP\Assignment_week1>git rebase --continue
Successfully rebased and updated refs/heads/Feature.
```

(iv)

```
C:\Dev tools\PJP\Assignment_week1>git status
On branch Feature
Your branch is up to date with 'origin/Feature'.

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    File1.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

```
C:\Dev tools\PJP\Assignment_week1>git add .
```

```
C:\Dev tools\PJP\Assignment_week1>git commit -m "deleted file"
[Feature d7e0ab4] deleted file
 1 file changed, 2 deletions(-)
 delete mode 100644 File1.txt
```

```
C:\Dev tools\PJP\Assignment_week1>git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 269 bytes | 89.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/soorya4992/Assignment_week1.git
   b4ee0e2..d7e0ab4  Feature -> Feature
```

```
C:\Dev tools\PJP\Assignment_week1>git reflog
92a8713 (HEAD -> Feature) HEAD@{0}: pull: Merge made by the 'recursive' strategy.
3de60ac HEAD@{1}: reset: moving to 3de60ac47e72c06bef67de8b741a0244abb69dfa
b2269f7 HEAD@{2}: pull: Merge made by the 'recursive' strategy.
3de60ac HEAD@{3}: reset: moving to HEAD~1
71ec739 HEAD@{4}: pull: Merge made by the 'recursive' strategy.
3de60ac HEAD@{5}: commit: delete file
b4ee0e2 HEAD@{6}: reset: moving to HEAD~1
d7e0ab4 (origin/Feature) HEAD@{7}: checkout: moving from Feature to Feature
d7e0ab4 (origin/Feature) HEAD@{8}: commit: deleted file
b4ee0e2 HEAD@{9}: checkout: moving from Dev to Feature
bb0db42 (origin/Dev, Dev) HEAD@{10}: checkout: moving from Feature to Dev
b4ee0e2 HEAD@{11}: pull: Fast-forward
b0d7c1d HEAD@{12}: checkout: moving from Delivery to Feature
8f0587c (origin/Delivery, Delivery) HEAD@{13}: pull: Fast-forward
0c58670 HEAD@{14}: checkout: moving from QA to Delivery
23ebb28 (origin/QA, QA) HEAD@{15}: pull: Fast-forward
0c58670 HEAD@{16}: checkout: moving from main to QA
ebbaf04 (origin/main, main) HEAD@{17}: pull: Fast-forward
2c44ef6 HEAD@{18}: checkout: moving from Dev to main
bb0db42 (origin/Dev, Dev) HEAD@{19}: checkout: moving from Dev to Dev
bb0db42 (origin/Dev, Dev) HEAD@{20}: pull: Merge made by the 'recursive' strategy.
4847ea3 HEAD@{21}: commit (merge): merge
db32409 HEAD@{22}: commit: merge
1413985 HEAD@{23}: checkout: moving from Feature to Dev
b0d7c1d HEAD@{24}: commit: merge conflict
```

```
C:\Dev tools\PJP\Assignment_week1>git log
commit b2269f7ddc166011ce0b5a5854e24396ccd0c352 (HEAD -> Feature)
Merge: 3de60ac d7e0ab4
Author: surya <surya4992@gmail.com>
Date:   Wed Mar 10 18:24:33 2021 +0530
```