Git Assignment:

1. Pull and Merge difference:

- **git pull**

- **git merge** – merging feature-a branch with main

- **Pull request:**

devmehta0 / **learn-git** Public

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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: feature-1 ▾   ✓ **Able to merge.** These branches can be automatically merged.

feature files added

Write   Preview

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.

○ **1** commit   ⊞ **2** files changed

◇ Commits on Feb 16, 2023

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feature files added #1

🔀 Merged **devmehta0** merged 1 commit into `main` from `feature-1` ⧉ now

💬 Conversation 0   ○ Commits 1   ⊟ Checks 0   ⊟ Files changed 2

devmehta0 commented now   Owner ☺ ⋯

No description provided.

○ ✓ feature files added   2b502f6

🔀 **devmehta0** merged commit **8bfc251** into `main` now   Revert

⎇ **Pull request successfully merged and closed**   Delete branch
You're all set—the `feature-1` branch can be safely deleted.

Write   Preview

Leave a comment

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

Comment

ⓘ Remember, contributions to this repository should follow our GitHub Community Guidelines.

ⓘ **ProTip!** Add comments to specific lines under Files changed.

2

2. Rebase

- Rebased my-cool-feature branch to main.

```
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout my-cool-feature
Switched to branch 'my-cool-feature'
dev@sf-cpu-403:~/Practicals/learn-git$ nano cool-feature
dev@sf-cpu-403:~/Practicals/learn-git$ git add .
dev@sf-cpu-403:~/Practicals/learn-git$ git commit
[my-cool-feature c15cd0e] first commit On branch my-cool-feature
 1 file changed, 2 insertions(+)
 create mode 100644 cool-feature
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout my-cool-feature
Switched to branch 'my-cool-feature'
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
dev@sf-cpu-403:~/Practicals/learn-git$ git pull
Already up to date.
dev@sf-cpu-403:~/Practicals/learn-git$ git rebase main
Current branch main is up to date.
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout my-cool-feature
Switched to branch 'my-cool-feature'
dev@sf-cpu-403:~/Practicals/learn-git$ git rebase main
Current branch my-cool-feature is up to date.
dev@sf-cpu-403:~/Practicals/learn-git$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
dev@sf-cpu-403:~/Practicals/learn-git$ git rebase my-cool-feature
Successfully rebased and updated refs/heads/main.
dev@sf-cpu-403:~/Practicals/learn-git$
```

3. Change commit message:

Git commit –amend –m <message>

```
                    dev@sf-cpu-403: ~/Practicals/learn-git        Q  ≡  _  □  ×
 2 files changed, 2 insertions(+)
 create mode 100644 feature-1.txt
 create mode 100644 feature2.txt
dev@sf-cpu-403:~/Practicals/learn-git$ git branch -a
  feature-1
  feature-a
* main
  remotes/origin/feature-1
  remotes/origin/main
dev@sf-cpu-403:~/Practicals/learn-git$ git merge feature-a
Merge made by the 'ort' strategy.
 feature-a.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature-a.txt
dev@sf-cpu-403:~/Practicals/learn-git$ git commit -amend -m "demostration of reb
ase"
error: did you mean `--amend` (with two dashes)?
dev@sf-cpu-403:~/Practicals/learn-git$ git commit --amend -m "demostration of re
base"
[main 1fabc41] demostration of rebase
 Date: Thu Feb 16 15:54:43 2023 +0530
 1 file changed, 2 insertions(+)
 create mode 100644 cool-feature
dev@sf-cpu-403:~/Practicals/learn-git$
```

4. Cherry pick

- created new branch named 'cherry-pick-feature'.

- made some commits and then picked one commit and added to the main branch

5. Drop commit

- git reset –hard HEAD~<number of commits behind head>

```
Author: devmehta0 <dev.d@simformsolutions.com>
dev@sf-cpu-403:~/Practicals/learn-git$ git branch -a
* cherry-pick-feature
  feature-1
  feature-a
  main
  my-cool-feature
  remotes/origin/main
dev@sf-cpu-403:~/Practicals/learn-git$ git reset --hard HEAD
HEAD is now at 0497bf2 cp file modified
dev@sf-cpu-403:~/Practicals/learn-git$ git log
commit 0497bf21d9f4928a838496c53f426577300c5130 (HEAD -> cherry-pick-feature)
Author: devmehta0 <dev.d@simformsolutions.com>
Date:   Fri Feb 17 10:50:38 2023 +0530

    cp file modified

commit a90417da78bec059dd9ee495417d01b28d92fc98
Author: devmehta0 <dev.d@simformsolutions.com>
Date:   Fri Feb 17 10:48:51 2023 +0530

    cp file added
            new file:   cp.txt

commit bae2ebe6a54ceae8f94dca41bbb9091f6d3ed820
Author: devmehta0 <dev.d@simformsolutions.com>
dev@sf-cpu-403:~/Practicals/learn-git$ git reset --hard HEAD
HEAD is now at 0497bf2 cp file modified
dev@sf-cpu-403:~/Practicals/learn-git$ git reset --hard HEAD~1
HEAD is now at a90417d cp file added    new file:   cp.txt
dev@sf-cpu-403:~/Practicals/learn-git$
```
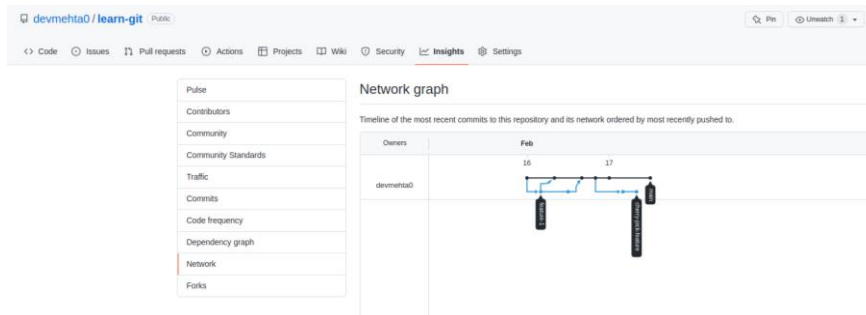
Before deleting commit from 'cherry-pick-feature' branch.

After deleting 'HEAD~1' commit from 'cherry-pick feature' branch.