ASDT: EXERCISE

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CONTENT

Create a new remote repository.

Push all commits from Exercise 6a/6b to the remote repository.

Play with the git remote, git fetch, git push, git pull, git branch

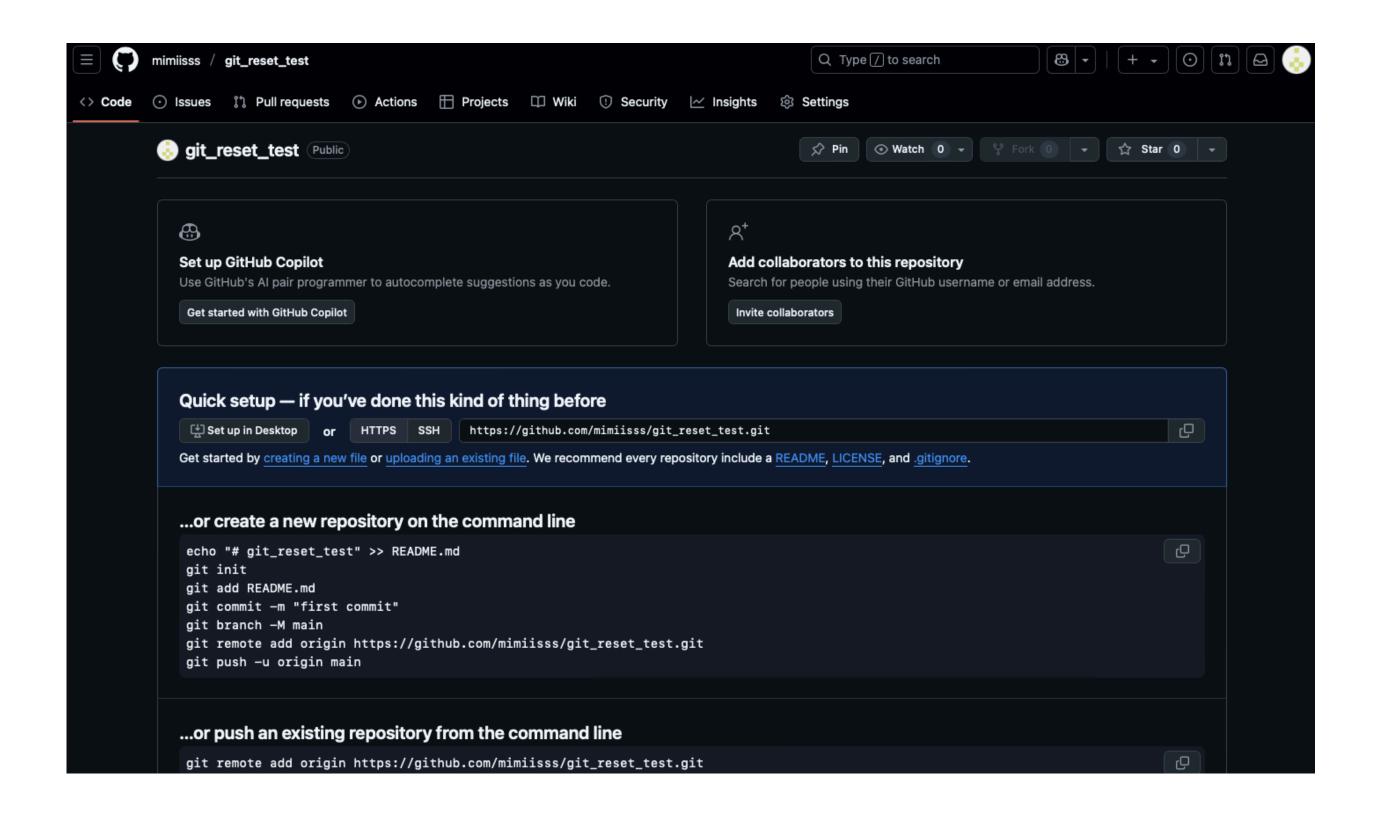
Execute fast-forward merge.

Execute a 3-way merge.

Resolve conflict.

Add to the remote repository and to the Tasks in MS Teams a report showing results of the Invite me to the repository (username: MansSlowiczek)

1 Create a new remote repository.



2 Push all commits from Exercise 6a/6b to the remote repository.

```
[nouveaucompte@macbook-air-de-mimii git_reset_test % cd ~/git_reset_test
[nouveaucompte@macbook-air-de-mimii git_reset_test % git remote add origin https://github.com/mimiisss/git_reset_test.git
[nouveaucompte@macbook-air-de-mimii git_reset_test % git branch -M main
[nouveaucompte@macbook-air-de-mimii git_reset_test % git push -u origin main

Counting objects: 7, done.

Delta compression using up to 4 threads.

Compression objects: 100% (3/3), done.

Writing objects: 100% (3/3), done.

Writing objects: 100% (7/7), 619 bytes | 206.00 KiB/s, done.

Total 7 (delta 1), reused 0 (delta 0)

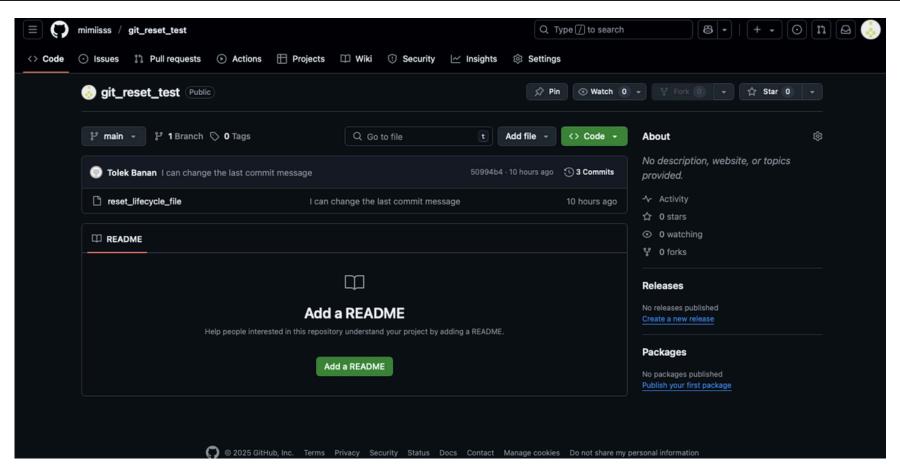
remote: Resolving deltas: 100% (1/1), done.

To https://github.com/mimiisss/git_reset_test.git

* [new branch] main -> main

Branch 'main' set up to track remote branch 'main' from 'origin'.

nouveaucompte@macbook-air-de-mimii git_reset_test %
```



3 Play with the git remote, git fetch, git push, git pull, git branch

```
[nouveaucompte@macbook-air-de-mimii git_reset_test % git remote -v
origin https://github.com/mimiisss/git_reset_test.git (fetch)
origin https://github.com/mimiisss/git_reset_test.git (push)
[nouveaucompte@macbook-air-de-mimii git_reset_test % git fetch
[nouveaucompte@macbook-air-de-mimii git_reset_test % git pull
Already up to date.
[nouveaucompte@macbook-air-de-mimii git_reset_test % git branch
* main
```

4 Execute fast-forward merge.

```
nouveaucompte@macbook-air-de-mimii git_reset_test % git checkout -b feature-ff
echo "fast forward content" > ff.txt
git add ff.txt
git commit -m "Add ff.txt for fast-forward demo"
Switched to a new branch 'feature-ff'
[feature-ff 38d5227] Add ff.txt for fast-forward demo
1 file changed, 1 insertion(+)
 create mode 100644 ff.txt
nouveaucompte@macbook-air-de-mimii git_reset_test % git checkout main
git merge feature-ff
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Updating 50994b4..38d5227
Fast-forward
 ff.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 ff.txt
nouveaucompte@macbook-air-de-mimii git_reset_test %
```

5 Execute a 3-way merge.

```
nouveaucompte@macbook-air-de-mimii git_reset_test % git checkout -b feature-merge
Switched to a new branch 'feature-merge'
nouveaucompte@macbook-air-de-mimii git_reset_test % echo "Change from feature-merge" >> reset_lifecycle_file
git commit -am "Change in feature-merge"
[feature-merge b9dbcd1] Change in feature-merge
1 file changed, 1 insertion(+)
nouveaucompte@macbook-air-de-mimii git_reset_test % git checkout main
echo "Change from main" >> reset_lifecycle_file
git commit -am "Change in main"
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
[main b0124bf] Change in main
 1 file changed, 1 insertion(+)
nouveaucompte@macbook-air-de-mimii git_reset_test % git merge feature-merge
Auto-merging reset_lifecycle_file
CONFLICT (content): Merge conflict in reset_lifecycle_file
Automatic merge failed; fix conflicts and then commit the result.
nouveaucompte@macbook-air-de-mimii git_reset_test %
```

6 Resolve conflict.

```
[nouveaucompte@macbook-air-de-mimii git_reset_test % nano reset_lifecycle_file
[nouveaucompte@macbook-air-de-mimii git_reset_test % nouveaucompte@macbook-air-de-mimii git_reset_test % git add reset_lifecycle_file
git commit -m "Resolve merge conflict between main and feature-merge"
[main e8c15e0] Resolve merge conflict between main and feature-merge
[nouveaucompte@macbook-air-de-mimii git_reset_test % git push

Counting objects: 12, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.13 KiB | 386.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/mimiisss/git_reset_test.git
50994b4.e8c15e0 main -> main
nouveaucompte@macbook-air-de-mimii git_reset_test %
```

7 Add to the remote repository and to the Tasks in MS Teams a report showing results of the Exercise 7.