

## Task - CLI

Gagal download/update repository pada ubuntu

## Task - Github

1. <https://github.com/jalaluddin94/training-alterra>
2. New Branch:
  - a. Development:

- b. FeatureA:

```
MINGW64:/d/Training/Java Springboot Alterra/Day 2

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (master)
$ git checkout -b featureA
Switched to a new branch 'featureA'

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git push
fatal: The current branch featureA has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin featureA

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git push --set-upstream origin featureA
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'featureA' on GitHub by visiting:
remote:   https://github.com/jalaluddin94/training-alterra/pull/new/featureA
remote:
To https://github.com/jalaluddin94/training-alterra.git
 * [new branch]      featureA -> featureA
Branch 'featureA' set up to track remote branch 'featureA' from 'origin'.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$
```

c. FeatureB:

```
MINGW64:/d/Training/Java Springboot Alterra/Day 2

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (master)
$ git checkout -b featureB
Switched to a new branch 'featureB'

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git push --set-upstream origin featureB
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'featureB' on GitHub by visiting:
remote:   https://github.com/jalaluddin94/training-alterra/pull/new/featureB
remote:
To https://github.com/jalaluddin94/training-alterra.git
 * [new branch]      featureB -> featureB
Branch 'featureB' set up to track remote branch 'featureB' from 'origin'.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ |
```

3.

a. Push:

```
MINGW64;/d/Training/Java Springboot Alterra/Day 2
$ git status
On branch development
Your branch is up to date with 'origin/development'.

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

nothing added to commit but untracked files present (use "git add" to track)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git add .
warning: LF will be replaced by CRLF in File1.txt.
The file will have its original line endings in your working directory

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git status
On branch development
Your branch is up to date with 'origin/development'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   File1.txt

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git commit -m "File on development"
[development 9fd8363] File on development
 1 file changed, 1 insertion(+)
 create mode 100644 File1.txt

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git push
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), 331 bytes | 331.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
 fb40e45..9fd8363  development -> development

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$
```

b. Pull:

```
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git pull
Already up to date.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ |
```

c. Stash:

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ echo "# training-alterra featureB" >> File3.txt

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git stash -a
warning: LF will be replaced by CRLF in File3.txt.
The file will have its original line endings in your working directory
Saved working directory and index state WIP on featureB: fb40e45 commitan pertama

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git stash list
stash@{0}: WIP on featureB: fb40e45 commitan pertama

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git log --oneline
fb40e45 (HEAD -> featureB, origin/master, origin/featureB, master) commitan pertama

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$

```

d. Merge:

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ ls
README.md

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git merge featureA
Updating fb40e45..267c815
Fast-forward
 File2.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 File2.txt

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ ls
File2.txt README.md

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$

```

4. Penanganan konflik:

a. Edit File2.txt pada branch featureA:

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ ls
File2.txt README.md

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git add .

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git commit -m "edit on featureA"
[featureA 0515130] edit on featureA
 1 file changed, 1 insertion(+), 1 deletion(-)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
 267c815..0515130 featureA -> featureA

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git checkout featureB
Switched to branch 'featureB'
Your branch is up to date with 'origin/featureB'.

```

- b. Switch dan edit File2.txt pada branch featureB (sebelumnya branch featureA pernah dimerge ke branch featureB untuk mendapatkan File2.txt di branch featureB ⇒ case pengerjaan fitur dibagi ke 2 developer dan masing-masing mengerjakan di branchnya masing-masing):

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureA)
$ git checkout featureB
Switched to branch 'featureB'
Your branch is up to date with 'origin/featureB'.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git pull
Already up to date.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git add .

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git commit -m "edit file2 yang sama di featureB"
[featureB 1a31fbf] edit file2 yang sama di featureB
1 file changed, 1 insertion(+), 1 deletion(-)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 359 bytes | 179.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
c2645b5..1a31fbf featureB -> featureB

```

- c. Switch ke branch development untuk menyatukan pekerjaan:

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git checkout development
Switched to branch 'development'
Your branch is up to date with 'origin/development'.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git pull
Already up to date.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git fetch

```

- d. Merge dari branch featureA ke branch development:

```

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git merge featureA
hint: Waiting for your editor to close the file...
[main 2022-07-14T15:41:38.085Z] update#setState idle
[main 2022-07-14T15:41:40.645Z] Starting extension host with pid 2104 (fork()) took 2
2 ms).
[main 2022-07-14T15:41:51.386Z] Enabling inspect port on extension host with pid 210
4.
[main 2022-07-14T15:42:02.285Z] Waiting for extension host with pid 2104 to exit.
[main 2022-07-14T15:42:05.790Z] Extension host with pid 2104 exited with code: 0, si
gnal: null.
Merge made by the 'recursive' strategy.
File2.txt | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git status
On branch development
Your branch is ahead of 'origin/development' by 2 commits.
(use "git push" to publish your local commits)

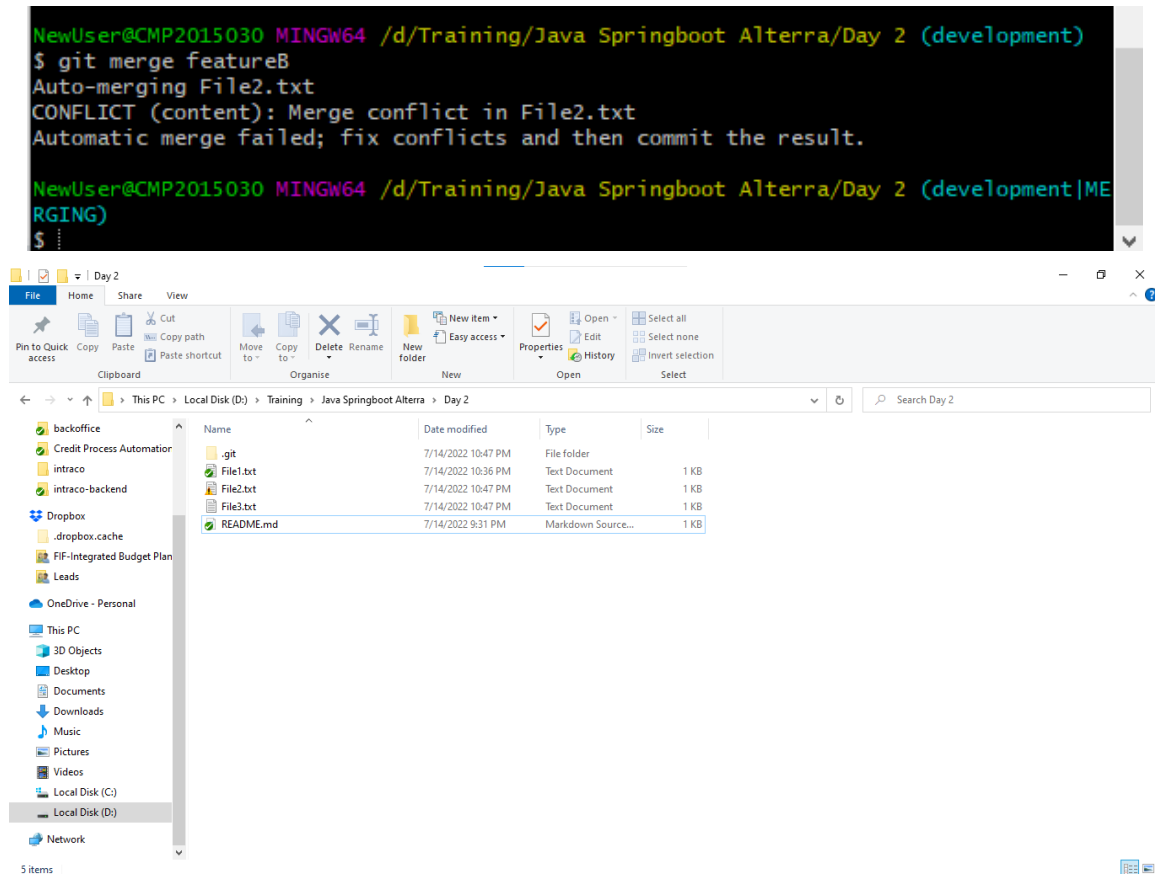
nothing to commit, working tree clean

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git push
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% (2/2), 372 bytes | 372.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
ee30018..860b6e9 development -> development

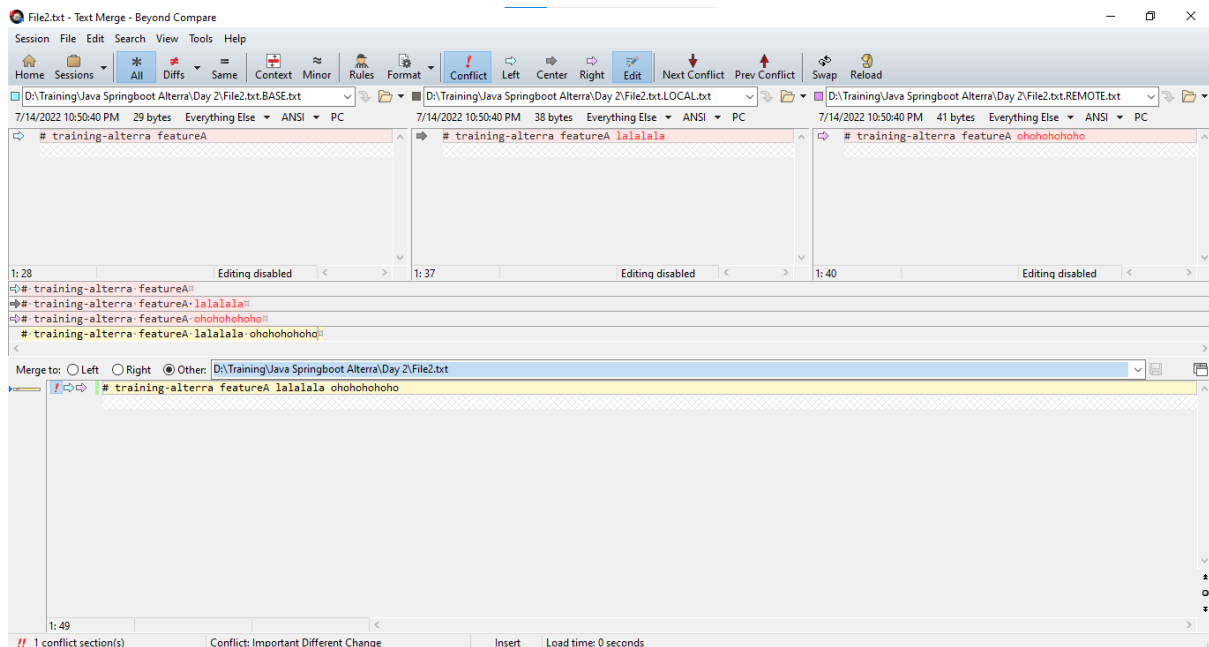
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$

```

e. Merge dari branch featureB ke branch development (konflik):



f. Penyelesaian konflik (dengan bantuan tools Beyond Compare, karena di VSCode tidak muncul pilihan accept from headnya):



Misal yang diambil adalah dari featureA (tengah atas) dan featureB (kanan atas) dengan dipisahkan oleh spasi pada line yang sama

```
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development|MERGING)
$ git diff
diff --cc File2.txt
index fb9a336,8b22349..0000000
--- a/File2.txt
+++ b/File2.txt
@@@ -1,1 -1,1 +1,1 @@@
- # training-alterra featureA lalalala
-# training-alterra featureA ohohohohoho
++# training-alterra featureA lalalala ohohohohoho

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development|MERGING)
$
```

- g. Commit & Push resolve konflik:

```
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development|MERGING)
$ git add .

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development|MERGING)
$ git status
On branch development
Your branch is up to date with 'origin/development'.

All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)

Changes to be committed:
  modified:   File2.txt
  new file:   File3.txt

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development|MERGING)
$ git commit -m "test resolve merge conflict"
[development 9328597] test resolve merge conflict

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 415 bytes | 415.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
  860b6e9..9328597  development -> development

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$
```

5.

- a. Switch ke branch featureB, dan edit serta commit & push File3.txt yang sudah diedit:

```
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git checkout featureB
Switched to branch 'featureB'
Your branch is up to date with 'origin/featureB'.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git fetch

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git pull
Already up to date.

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git commit -am "edit file3.txt featureB for merge no FF"
[featureB 485b425] edit file3.txt featureB for merge no FF
 1 file changed, 1 insertion(+), 1 deletion(-)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 385 bytes | 385.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jalaluddin94/training-alterra.git
  1a31fbf..485b425  featureB -> featureB

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$
```



b. Switch ke branch development:

```
NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (featureB)
$ git checkout development
Switched to branch 'development'
Your branch is up to date with 'origin/development'.
```

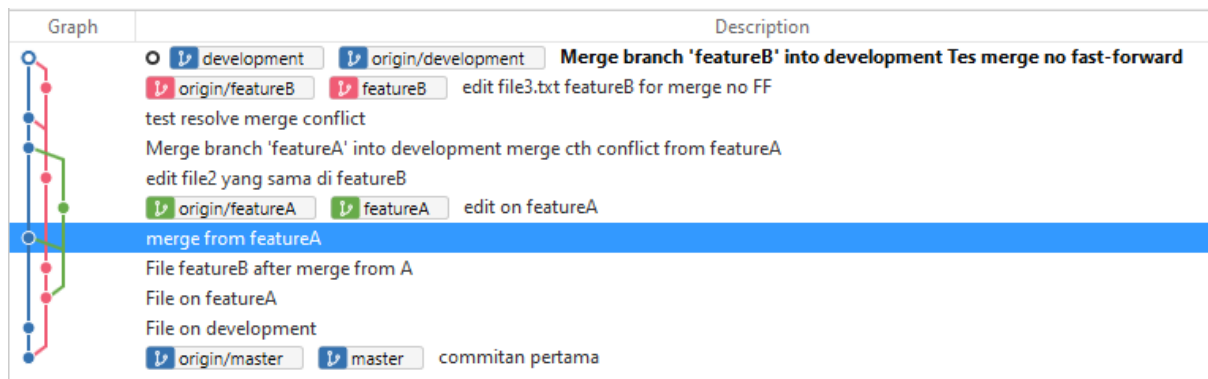
c. Merge No-Fast Forward:

```
MINGW64:/d/Training/Java Springboot Alterra/Day 2

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git merge --no-ff featureB
hint: Waiting for your editor to close the file...
[main 2022-07-15T04:21:48.896Z] update#setState idle
[main 2022-07-15T04:21:52.839Z] Starting extension host with pid 9392 (fork() took 2
4 ms).
[main 2022-07-15T04:22:02.729Z] Enabling inspect port on extension host with pid 939
2.
[main 2022-07-15T04:22:02.900Z] Enabling inspect port on extension host with pid 939
2.
[main 2022-07-15T04:22:18.899Z] update#setState checking for updates
[main 2022-07-15T04:22:18.909Z] update#setState downloading
[main 2022-07-15T04:22:33.336Z] Waiting for extension host with pid 9392 to exit.
[main 2022-07-15T04:22:37.771Z] Extension host with pid 9392 exited with code: 0, si
gnal: null.
Merge made by the 'recursive' strategy.
 File3.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ git push
Logon failed, use ctrl+c to cancel basic credential prompt.
Logon failed, use ctrl+c to cancel basic credential prompt.
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% (2/2), 328 bytes | 328.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/jalaluddin94/training-alterra.git
 9328597..1a3898a  development -> development

NewUser@CMP2015030 MINGW64 /d/Training/Java Springboot Alterra/Day 2 (development)
$ |
```



6. Screenshot all branches:

