EXERCISE 1 MERGE

Note: I use Notepad++ hence the command npp. Plus additional typos/accidents.

Create a repository labs2
mkdir labs2
cd labs2
git init
npp
Add a text file with content:
The student is able to write solution algorithms for the given problem
with the chosen programming language. The student is able to identify
the typical phases and activities in the software development process.
The student knows the high level differences of the most common processes.
The student recognizes the need and use of different tools during software development.
git add labs2.txt
git commit -m "Original message added"
Create branch b1
git branch b1
Change to branch b1
git checkout b1
Add word Line 1 in end of line1
npp
Add and commit
git add labs2.txt
git commit -m "Committing changes in line1"
Change to master branch
git checkout master
Add word Line 5 in end of line 5
npp
git add labs.txt
git commit -m "Committing changes in line5"
merge b1 to master
git merge b1
Check that both changes are in master branch file
npp
Delete branch b1
git branch -d b1

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~
$ mkdir labs2

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~
$ cd labs2

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2
$ git init
Initialized empty Git repository in C:/Users/OMISTAJA/labs2/.git/

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git commit -m "Original message added"
[master (root-commit) a49ee90] Original message added
 1 file changed, 7 insertions(+)
 create mode 100644 labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git branch b1

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git checkout b1
Switched to branch 'b1'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b1)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b1)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b1)
$ git commit -m "Committing changes in line1"
[b1 fea45e2] Committing changes in line1
 1 file changed, 1 insertion(+), 1 deletion(-)

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b1)
$ git checkout master
Switched to branch 'master'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ npp
```

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OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git commit -m "Committing changes in line5"
[master 1741c59] Committing changes in line5
 1 file changed, 1 insertion(+), 1 deletion(-)

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git merge b1
Auto-merging labs2.txt
hint: Waiting for your editor to close the file... C:\Program Fil
es\Notepad++\notepad++.exe: line 1: C:Program: command not found
error: There was a problem with the editor 'C:\Program Files\Note
pad++\notepad++.exe'.
Not committing merge; use 'git commit' to complete the merge.

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master|MERGING)
$ git commit -m "Another try"
[master 3ad6694] Another try

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git merge b1
Already up to date.

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git branch -d b1
Deleted branch b1 (was fea45e2).

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git status
On branch master
nothing to commit, working tree clean

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$
```

EXERCISE 2 MERGE AND CONFLICT

Use same repository and file as in exercise 1
Create branch b2
git branch b2
Change to branch b2
git checkout b2
Add a new line with text 'Software Development' as 1st line
npp
Add and commit
git add labs2.txt
git commit -m "Line Software Development"
Change to master branch
git checkout master
Add a new line with text 'SW Development' as 1st line
npp
merge b2 to master
git merge b2
Git shows conflict ⮕ Resolve
Add + commit
git add labs2.txt
git commit -m "Committing changes"

Delete branch b2
git branch -d b2
Check master file content
npp

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~
$ cd labs2

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git init
Reinitialized existing Git repository in C:/Users/OMISTAJA/labs2/.git/

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git branch b2

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git checkout b2
Switched to branch 'b2'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b2)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b2)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b2)
$ git commit -m "Line Software Development"
[b2 740d3af] Line Software Development
 1 file changed, 1 insertion(+)

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (b2)
$ git checkout master
Switched to branch 'master'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git merge b2
error: Your local changes to the following files would be overwritten by merge:
        labs2.txt
Please commit your changes or stash them before you merge.
Aborting
Updating 9d0d652..740d3af

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git commit -m "Committing changes"
[master 6286b3f] Committing changes
 1 file changed, 1 insertion(+)
```

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git merge b2
Auto-merging labs2.txt
CONFLICT (content): Merge conflict in labs2.txt
Automatic merge failed; fix conflicts and then commit the result.

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master|MERGING)
$ git add labs.txt
fatal: pathspec 'labs.txt' did not match any files

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master|MERGING)
$ git add labs2.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master|MERGING)
$ git commit -m "Commit"
[master 6d1b309] Commit

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git branch -d b2
Deleted branch b2 (was 740d3af).

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ git status
On branch master
nothing to commit, working tree clean

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs2 (master)
$ |
```