


Exercise 1 Merge

- o Create a repository labs2
- o 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.

- Create branch b1
- Change to branch b1
- Add word Line 1 in end of line1
- Add and commit

<pre>MINGW64:/d/Programing/Node_js/Lab3 \$ cd Programing junay@Junayed MINGW64 /d/Programing (master) \$ cd node.js bash: cd: node.js: No such file or directory junay@Junayed MINGW64 /d/Programing (master) \$ cd Node.js bash: cd: Node.js: No such file or directory junay@Junayed MINGW64 /d/Programing (master) \$ cd Node_js junay@Junayed MINGW64 /d/Programing/Node_js (master) \$ mkdir Lab3 junay@Junayed MINGW64 /d/Programing/Node_js (master) \$ cd Lab3 junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master) \$ notepad lab3.txt junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master) \$ git add lab3.txt junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master) \$ git commit -m "added text in lab3.txt" [master 1b33149] added text in lab3.txt 1 file changed, 5 insertions(+) create mode 100644 Node_js/Lab3/lab3.txt junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master) \$ git checkout -b b1 Switched to a new branch 'b1' junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b1) \$ notepad lab3.txt junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b1) \$ git add lab3.txt junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b1) \$ git commit -m "added Line1 in ende of line1" [b1 7048651] added Line1 in ende of line1 1 file changed, 1 insertion(+), 1 deletion(-) junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b1) \$ </pre>	<div> lab3 - Muistio</div> <div>Tiedosto Muokkaa Näytä</div> <div>The student is able to write solution algorithms for the given problem with the chosen programming language. Line1; 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.</div>
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- Change to master branch
- Add word Line 5 in end of line 5

```
MINGW64:/d/Programing/Node_js/Lab3
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b1)
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ notepad lab3
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git add lab3.txt
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git commit -m "added Line5 in ende of line4"
[master 991eb84] added Line5 in ende of line4
1 file changed, 1 insertion(+), 1 deletion(-)
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ |
```

lab3 – Muistio

Tiedosto Muokkaa Näytä

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.Line5

- merge b1 to master
- Check that both changes are in master branch file

MINGW64:/d/Programing/Node_js/Lab3

```
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git merge b1
Auto-merging Node_js/Lab3/lab3.txt
hint: waiting for your editor to close the file... |
```

lab3 – Muistio

Tiedosto Muokkaa Näytä

The student is able to write solution algorithms for the given problem with the chosen programming language.Line1; 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.Line5

- Delete branch b1

MINGW64:/d/Programing/Node_js/Lab3

```
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch -d b1

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch
b1
* master
-d

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch -d b1
Deleted branch b1 (was 7048651).

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch
* master
-d

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$
```

Exercise 2 Merge and conflict

- Use same repository and file as in exercise 1
- Create branch b2
- Change to branch b2
- Add a new line with text 'Software Development' as 1st line
- Add and commit
- Change to master branch
- Add a new line with text 'SW Development' as 1st line
- merge b2 to master

```
MINGW64:/d/Programing/Node_js/Lab3

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git checkout b2
Switched to branch 'b2'

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b2)
$ notepad lab3

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b2)
$ git add lab3.txt

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b2)
$ git commit -m "added Course in 1st line"
[b2 7deecad] added Course in 1st line
1 file changed, 1 insertion(+), 1 deletion(-)

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (b2)
$ git checkout master
Switched to branch 'master'
Your branch and 'origin/master' have diverged,
and have 6 and 2 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ notepad lab3

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git add lab3.txt

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git commit -m "added subject in 1st line"
[master aa8a6e6] added subject in 1st line
1 file changed, 1 insertion(+), 1 deletion(-)

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git merge b2
Auto-merging Node_js/Lab3/lab3.txt
CONFLICT (content): Merge conflict in Node_js/Lab3/lab3.txt
Automatic merge failed; fix conflicts and then commit the result.

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master|MERGING)
$ |
```

- Git shows conflict → Resolve
- Add + commit
- Delete branch b2
- Check master file content

MINGW64:/d/Programing/Node_js/Lab3

```
junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master|MERGING)
$ notepad lab3

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master|MERGING)
$ git add lab3.txt

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master|MERGING)
$ git commit -m "Marged conflicts"
[master f9c0fb1] Marged conflicts

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch -d b2
fatal: a branch named '-d' already exists

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch
b2
* master
-d

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch -d b2
Deleted branch b2 (was 7deecad).

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$ git branch
* master
-d

junay@Junayed MINGW64 /d/Programing/Node_js/Lab3 (master)
$
```



lab3 – Muistio

Tiedosto

Muokkaa

Näytä

Software Development subject.
Software Development course.