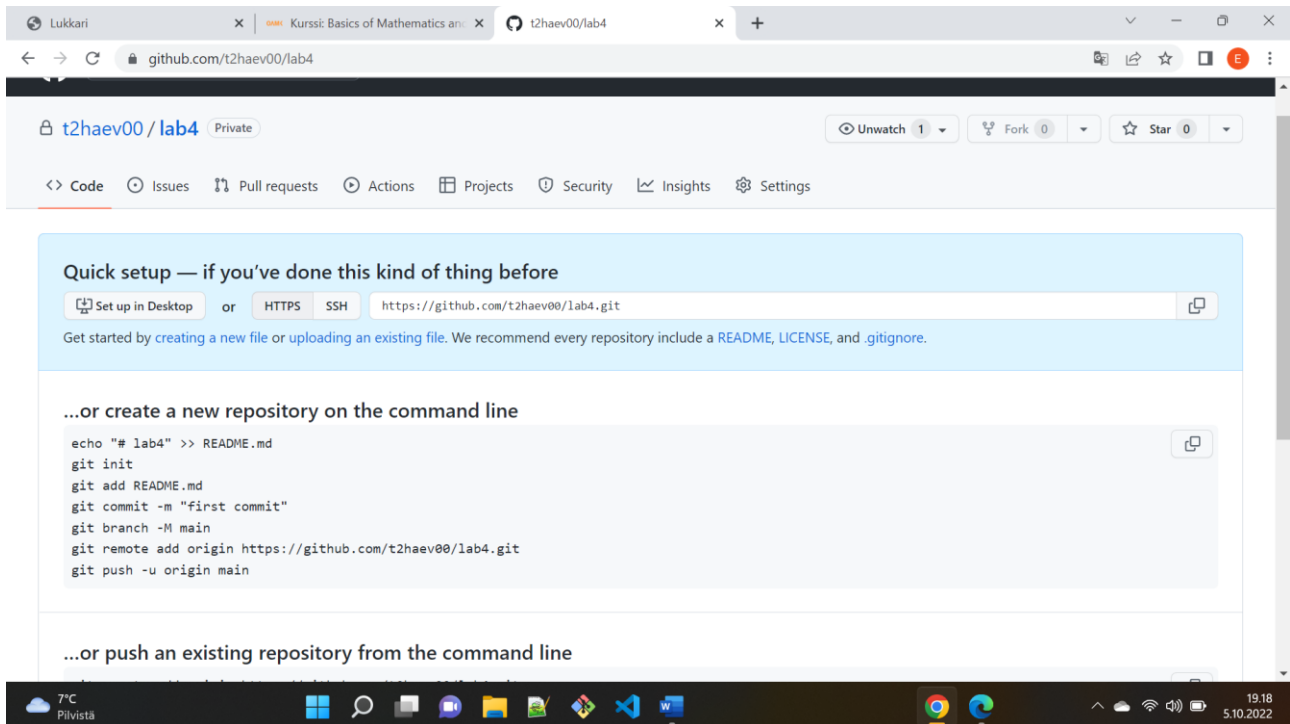


EXERCISE 1. Created an account on GitHub. Here's screenshot of my profile.

The screenshot shows the GitHub profile page for user 't2haev00'. The page layout includes a header with navigation links (Pull requests, Issues, Marketplace, Explore) and a search bar. The profile section on the left features a circular avatar with a yellow and white checkerboard pattern, the username 't2haev00', and an 'Edit profile' button. The main content area displays 'Popular repositories' (none shown), a message 'You don't have any public repositories yet.', and a '1 contribution in the last year' section. This section includes a calendar grid for the last year (Oct to Sep) with a single green square indicating a contribution on Wednesday, August 3rd. Below the calendar is a link to 'Learn how we count contributions' and a legend for the contribution graph. The footer shows the system tray with weather (7°C, Pölvistä) and the time (19:09, 5.10.2022).

EXERCISE 2. Create remote repo to GitHub.

The screenshot shows the 'Create a new repository' page on GitHub. The page title is 'Create a new repository' with a subtitle 'A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)'. The form includes fields for 'Owner' (t2haev00) and 'Repository name' (lab4), which is marked with a green checkmark. Below these fields is a note: 'Great repository names are short and memorable. Need inspiration? How about glowing-funicular?'. There is a 'Description (optional)' text area. The 'Visibility' section has two radio buttons: 'Public' (selected) and 'Private'. The 'Initialize this repository with:' section has a checkbox for 'Add a README file' (selected) and a link to 'Learn more.'. The footer shows the system tray with weather (7°C, Pölvistä) and the time (19:15, 5.10.2022).



EXERCISE 3. Create local directory. Connect local repo to remote repo. Add and commit some file to it.

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~
$ mkdir lab4

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~
$ cd lab4

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4
$ git init
Initialized empty Git repository in C:/Users/OMISTAJA/lab4/.git/

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git remote add origin https://github.com/t2haev00/lab4.git

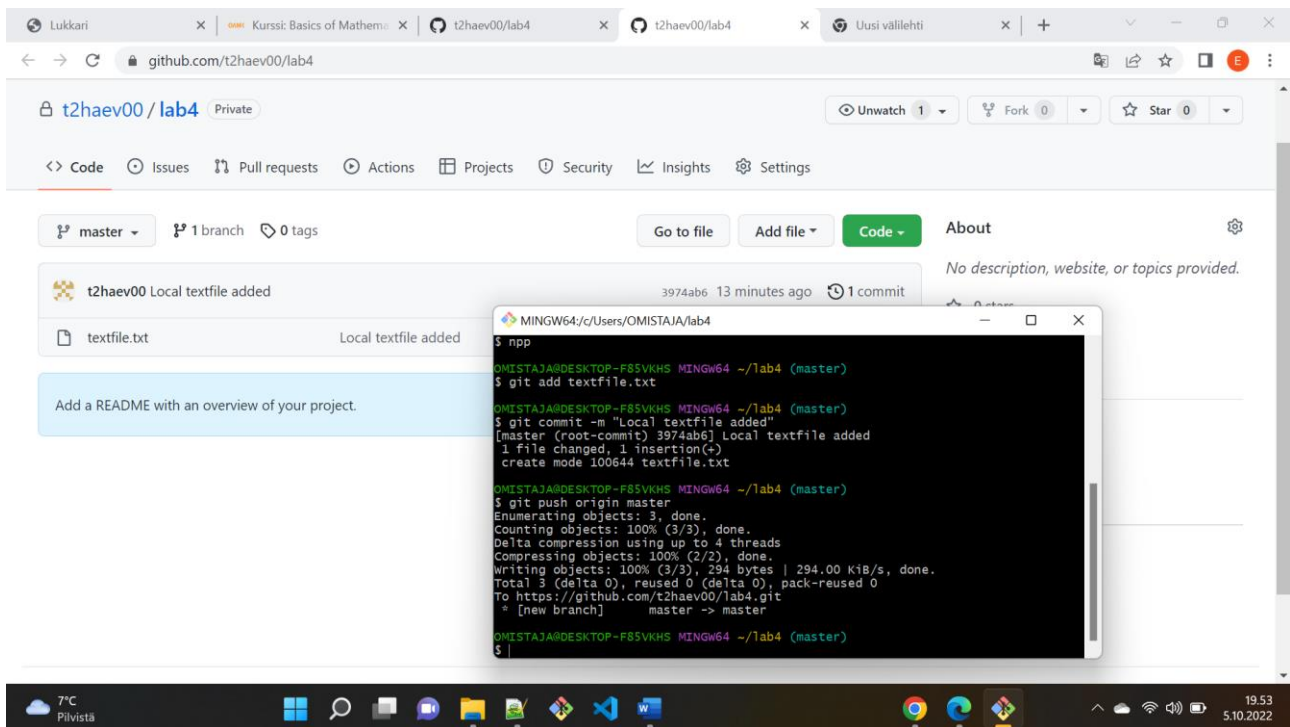
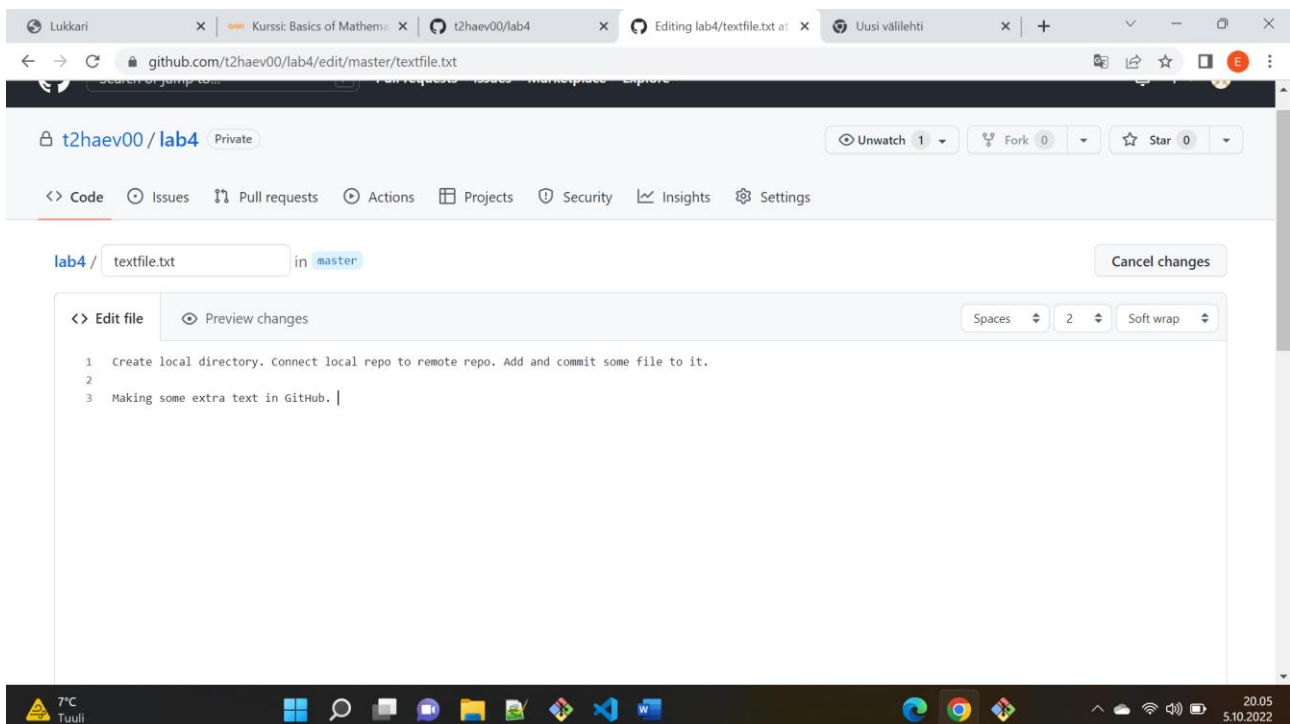
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git remote -v
origin https://github.com/t2haev00/lab4.git (fetch)
origin https://github.com/t2haev00/lab4.git (push)

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ npp

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git add textfile.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git commit -m "Local textfile added"
[master (root-commit) 3974ab6] Local textfile added
1 file changed, 1 insertion(+)
create mode 100644 textfile.txt

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$
```

EXERCISE 4. Push file to remote repo. Check that the file is in GITHUB.**EXERCISE 4.** Edit the file in GITHUB and pull to local repo.

The screenshot shows a GitHub web interface for the repository `t2haev00/lab4`. The "Commit changes" dialog is open, showing the file `textfile.txt` being updated. The commit message field is empty, and the "Commit directly to the master branch" option is selected. Below the dialog, the file content is displayed, showing three lines of text.

Overlaid on the bottom right is a terminal window showing the following commands and output:

```

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 685 bytes | 13.00 KiB/s, done.
From https://github.com/t2haev00/lab4
* branch                master    -> FETCH_HEAD
3974ab6..c58d32a  master    -> origin/master
Updating 3974ab6..c58d32a
Fast-forward
 textfile.txt | 4 +++
 1 file changed, 3 insertions(+), 1 deletion(-)
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$

```

EXERCISE 5. Create local branch and checkout that branch.

```

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git branch skywalker

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git checkout skywalker
Switched to branch 'skywalker'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (skywalker)
$

```

Make some changes to file. Push and create remote branch (Use same remote repo as earlier).

The screenshot shows the GitHub web interface for the repository 't2haev00/lab4'. The 'skywalker' branch is selected, and it is noted that this branch is 1 commit ahead of master. A terminal window is open, displaying the following commands and output:

```

MINGW64/c/Users/OMISTAJA/lab4
Switched to branch 'skywalker'
OMISTAJA@DESKTOP-FB5VKHS MINGW64 ~/lab4 (skywalker)
$ npp
OMISTAJA@DESKTOP-FB5VKHS MINGW64 ~/lab4 (skywalker)
$ git add textfile.txt
OMISTAJA@DESKTOP-FB5VKHS MINGW64 ~/lab4 (skywalker)
$ git commit -m "Line for exercise 5"
[skywalker 3f50dc4] Line for exercise 5
1 file changed, 2 insertions(+)
OMISTAJA@DESKTOP-FB5VKHS MINGW64 ~/lab4 (skywalker)
$ git push origin skywalker
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), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote: Create a pull request for 'skywalker' on GitHub by visiting:
remote: https://github.com/t2haev00/lab4/pull/new/skywalker
To https://github.com/t2haev00/lab4.git
 * [new branch] skywalker -> skywalker
OMISTAJA@DESKTOP-FB5VKHS MINGW64 ~/lab4 (skywalker)
$

```

Create pull request and merge branch to master in GITHUB.

The screenshot shows the GitHub 'Open a pull request' page for the repository 't2haev00/lab4'. The pull request is titled 'Line for exercise 5' and is ready to be merged. The 'base' is set to 'master' and the 'compare' branch is 'skywalker'. The status is 'Able to merge. These branches can be automatically merged.' The page includes a 'Write' tab with a text area for a comment and a 'Preview' tab. A 'Create pull request' button is visible at the bottom right.

The screenshot shows a GitHub pull request titled "Line for exercise 5 #1" on the repository "t2haev00/lab4". The pull request is from the "skywalker" branch to the "master" branch. It shows a commit "3f50dc4" with the title "Line for exercise 5". The pull request status is "Open". The right sidebar shows the pull request details, including "Reviewers" (No reviews), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), "Milestone" (No milestone), and "Development" (No milestone). The bottom of the screen shows a Windows taskbar with various application icons and the system clock showing 21:06 on 5.10.2022.

The screenshot shows the same GitHub pull request page, but now the status is "Merged". The pull request has been merged into the "master" branch. The right sidebar shows the pull request details, including "Reviewers" (No reviews), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), "Milestone" (No milestone), and "Development" (No milestone). The bottom of the screen shows a Windows taskbar with various application icons and the system clock showing 21:07 on 5.10.2022.

Delete remote branch in GITHUB.

The screenshot shows the same GitHub pull request page, but now the status is "Deleted". The pull request has been deleted. The right sidebar shows the pull request details, including "Reviewers" (No reviews), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), "Milestone" (No milestone), and "Development" (No milestone). The bottom of the screen shows a Windows taskbar with various application icons and the system clock showing 21:07 on 5.10.2022.

Checkout local master and delete local branch.

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (skywalker)
$ git checkout master
Switched to branch 'master'

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git branch -d skywalker
error: The branch 'skywalker' is not fully merged.
If you are sure you want to delete it, run 'git branch -D skywalker'.

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git branch -D skywalker
Deleted branch skywalker (was 3f50dc4).

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ |
```

(Should there been merges/or pulls done separately in Git before these deletion instructions?)

Pull master from GITHUB.

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$ git pull origin master
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 631 bytes | 210.00 KiB/s, done.
From https://github.com/t2haev00/lab4
 * branch      master      -> FETCH_HEAD
   c58d32a..20191ad master  -> origin/master
Updating c58d32a..20191ad
Fast-forward
 textfile.txt | 2 ++
 1 file changed, 2 insertions(+)

OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/lab4 (master)
$
```

