Software Development
LAB2

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- Installing Git client and first-time Setup.

  ○ Setting the user name with command "git config –global user.name" followed by the user name using the quotation marks (see screenshot).
  ○ To est the email address, we use the same command but for email "git config –global user.email" followed by the user email using the quotation marks as shown bellow.

- Starting BASH UI, here we will create a folder namely *labs1* with the command mkdir labs1

- Now we set the folder as default with cd labs1.

- And to initialize a local repository, we can use git init.

  ○ To create a file and add content, we use the command "notepad" or "vi" followed by the text file's name we want to create, as shown bellow.

- Now we can add the file to a local repository.

```
OMISTAJA@DESKTOP-F85VKHS MINGW64 ~/labs1 (master)
$ git add labs1.txt
```

- And to commit the file, we use "git commit -m" followed by change we would like to make to the file.

```
tomos@DESKTOP-0D1BS4S MINGW64 ~/labs1 (master)
$ git commit -m "New file added"
[master (root-commit) beb217d] New file added
 1 file changed, 3 insertions(+)
 create mode 100644 labs1.txt
```

- To see the commits we have made, we can use the command "git log"

```
tomos@DESKTOP-0D1BS4S MINGW64 ~/labs1 (master)
$ git log
commit beb217dbbc30e7d834aef3b2a10afb33e96bc3c7 (HEAD -> master)
Author: "Tomoko <"t2tato01@students.oamk.fi">
Date:   Fri Sep 16 04:25:57 2022 +0900

    New file added
```

- To show the working tree status, we use "git status" command

```
tomos@DESKTOP-0D1BS4S MINGW64 ~/labs1 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

- Now we can make changes to the file we have created before and commit it using the command line "git commit -m" again.

```
tomos@DESKTOP-0D1BS4S MINGW64 ~/labs1 (master)
$ git commit -m "happy is added"
[master 71e02ce] happy is added
 1 file changed, 2 insertions(+)
```