Ministerul Educației al Republicii Moldova

Universitatea Tehnică a Moldovei
Facultatea CIM

Catedra Automatica și Tehnologii Informaționale

RAPORT

Lucrare de laborator Nr.2
La MIDPS

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Scopul lucrarii:

Insușirea noțiunii de Version Control Systems și a modului de setare a unui server.

Obiective:

Advanced Level (nota 9 || 10):

- seteaza un branch to track a remote origin pe care vei putea sa faci push (ex. Github, Bitbucket or custom server)
- reseteaza un branch la commit-ul anterior
- merge 2 branches
- rezolvarea conflictelor a 2 branches

Realizarea lucrarii de laborator

1. seteaza un branch to track a remote origin pe care vei putea sa faci push (ex. Github, Bitbucket or custom server)

adaugam si selectam un nou branch pe nume "lab2"

```
2c8bb02::5ab0016  master  > master

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (master)
$ git branch lab2

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (master)
$ git branch
  lab2
* master

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (master)
$ git init
Reinitialized existing Git repository in E:/UTM/midps/.git/

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (master)
$ git checkout lab2
Switched to branch 'lab2'

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git init
Reinitialized existing Git repository in E:/UTM/midps/.git/
```

Setam un branch to track remote origin si facem push

```
cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git config --global user.name "CutitaruAdrian"

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git config --global user.emal "cutitaru.adryan@gmail.com"

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git push --set-upstream origin lab2
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/CutitaruAdrian/midps-lab.git
 * [new branch]      lab2 -> lab2
Branch lab2 set up to track remote branch lab2 from origin.

cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$
```

2. reseteaza un branch la commit-ul anterior

verificam logul de commituri

```
cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git log --graph --all --decorate
* commit 5ab801660b625240de3896e79de273a4621b8318 (HEAD -> lab2, origin/master,
origin/lab2, master)
| Author: CutitaruAdrian <cutitaru.adryan@gmail.com>
| Date:   Thu Mar 31 18:56:42 2016 +0300
|
|     add lab2
|
*   commit 2c8bb022ae432c70489ff5ee0feefa4aa9103776
|\  Merge: f024773 02f9c6a
| | Author: CutitaruAdrian <cutitaru.adryan@gmail.com>
| | Date:   Thu Mar 31 14:32:58 2016 +0300
| |
| |     Merge branch 'Astyle'
| |
| * commit 02f9c6a3352cdec45d18c4f3adf5ce6f809e948f
| | Author: CutitaruAdrian <cutitaru.adryan@gmail.com>
| | Date:   Thu Mar 31 14:32:26 2016 +0300
| |
| |     test
| |
| * commit 4ec166e4b148d9b1e75b5daef60b5154d9191d69
| | Author: CutitaruAdrian <cutitaru.adryan@gmail.com>
| | Date:   Thu Mar 31 13:06:50 2016 +0300
| |
| |     Delete ~$b1_MIDPS_Cutitaru.docx
| |
* | commit f0247738a01c80152f6db5943b0799d9c94f10ce
```

Selectam din lista de commituri la un commit anterior prin introducerea inceputului codului de commit

```
cutit_000@asus-k56cb MINGW64 /e/UTM/midps (lab2)
$ git checkout  ee41d8af30195eb0
Note: checking out 'ee41d8af30195eb0'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again. Example:

  git checkout -b <new-branch-name>

HEAD is now at ee41d8a... add git ignore

cutit_000@asus-k56cb MINGW64 /e/UTM/midps ((ee41d8a...))
$
```
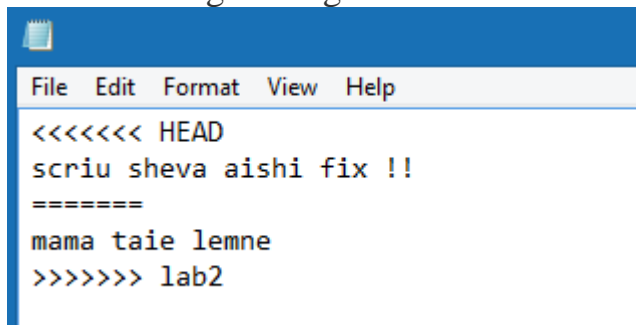
3. merge 2 branches

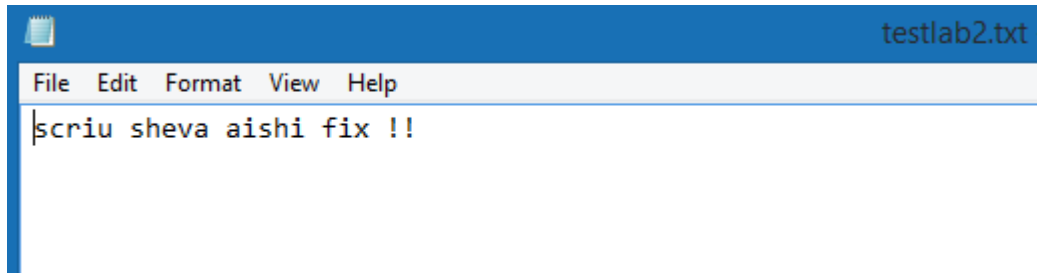facem merge la cele 2 branchuri in unul singur master

```
cutit_000@asus-k56cb MINGW64 /e/UTM/midps (master)
$ git merge master lab2
Auto-merging testlab2.txt
CONFLICT (add/add): Merge conflict in testlab2.txt
Automatic merge failed; fix conflicts and then commit the result.
```

4. rezolvarea conflictelor a 2 branches

observam ca a aparut o eroare in fisierul "testlab2.txt" astfel git a modificat fisierul sa alegem singuri care text din fisier s ail lasam.

```
File   Edit   Format   View   Help
<<<<<<< HEAD
scriu sheva aishi fix !!
=======
mama taie lemne
>>>>>>> lab2
```

am schimbat fisierul selectind textul care ne trebuie

Concluzie

In urma efectuarii acetei lucrari de labotrator am luat cunostinta cu mediul de lucru in echipa github. Astfel a efectuat taskuri de baza ca initializarea, setarea, accesul la github, adaugarea commiturilor, branchiurilor, diminuarea conflictelor!

Aceste task-uri ne vor ajuta pe viitor intr-o echipa de progamare, astfel fiecaredin echipa va crea partea sa de co, dupa care va incarca lucru pe server, si in sfrisit toate secventele de la toti membrii echipei se unesc in unul singur si se efectueaza produsul final!