

# РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

## ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

дисциплина: *Операционные системы*

Студент: МАССИБУ ДАВИД ЛЕВИ

Группа: НПИбд 01-20

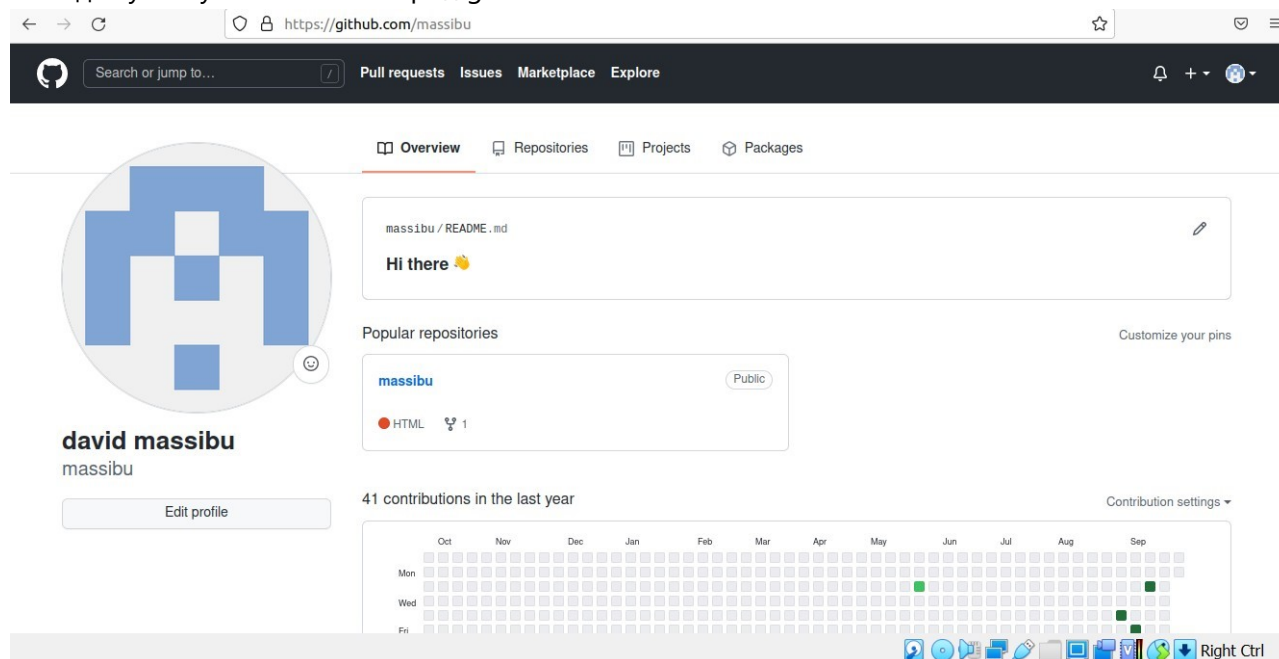
**МОСКВА 2021 г.**

Цель работы :

Изучить идеологию и применение средств контроля версий.

Ход работы:

1. Я создал учётную запись на <https://github.com>



2. Я настроил систему контроля версий git и добавил SSH keys.

The screenshot is divided into two horizontal sections. The top section shows a terminal window with the following text:

```
massibu@massibu-VirtualBox: ~/work/2020-2021/laboratory/LAB-2
massibu@massibu-VirtualBox:~$ ssh-keygen -C "david massibu <massibulevi@gmail.com>"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/massibu/.ssh/id_rsa):
/home/massibu/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/massibu/.ssh/id_rsa
Your public key has been saved in /home/massibu/.ssh/id_rsa.pub
The key fingerprint is:
S Rhythmbox bdi5VForJ52XCrKuW4cDDUHRw0Y4kX0EzNbbCTM david massibu <massibulevi@gmail.com>
The key's randomart image is:
+----[RSA 3072]-----+
|  .+=.+  |
|  .== E   |
|  =... *  |
|  . = . o  |
|  o + S o  |
|   * B * o . |
|  + X % = o  |
|  . o O * o  |
|   o++ . .  |
+----[SHA256]-----+
massibu@massibu-VirtualBox:~$ cat /home/massibu/.ssh/id_rsa.pub
```

The bottom section shows a web browser window at <https://github.com/settings/keys>. The page displays the user's profile 'david massibu' and a list of SSH keys. One key is listed:

Key Name	SHA256 Fingerprint	Added	Permissions	Action
my_key	SHA256:mmgfbdi5VForJ52XCrKuW4cDDUHRw0Y4kX0EzNbbCTM	Added on 29 Oct 2021	Never used — Read/write	Delete

There is a 'New SSH key' button in the top right corner of the SSH keys section.

3. Создал структуру каталога лабораторных работ.

The screenshot shows a file manager window with a sidebar on the left and a main pane on the right. The sidebar contains the following items:

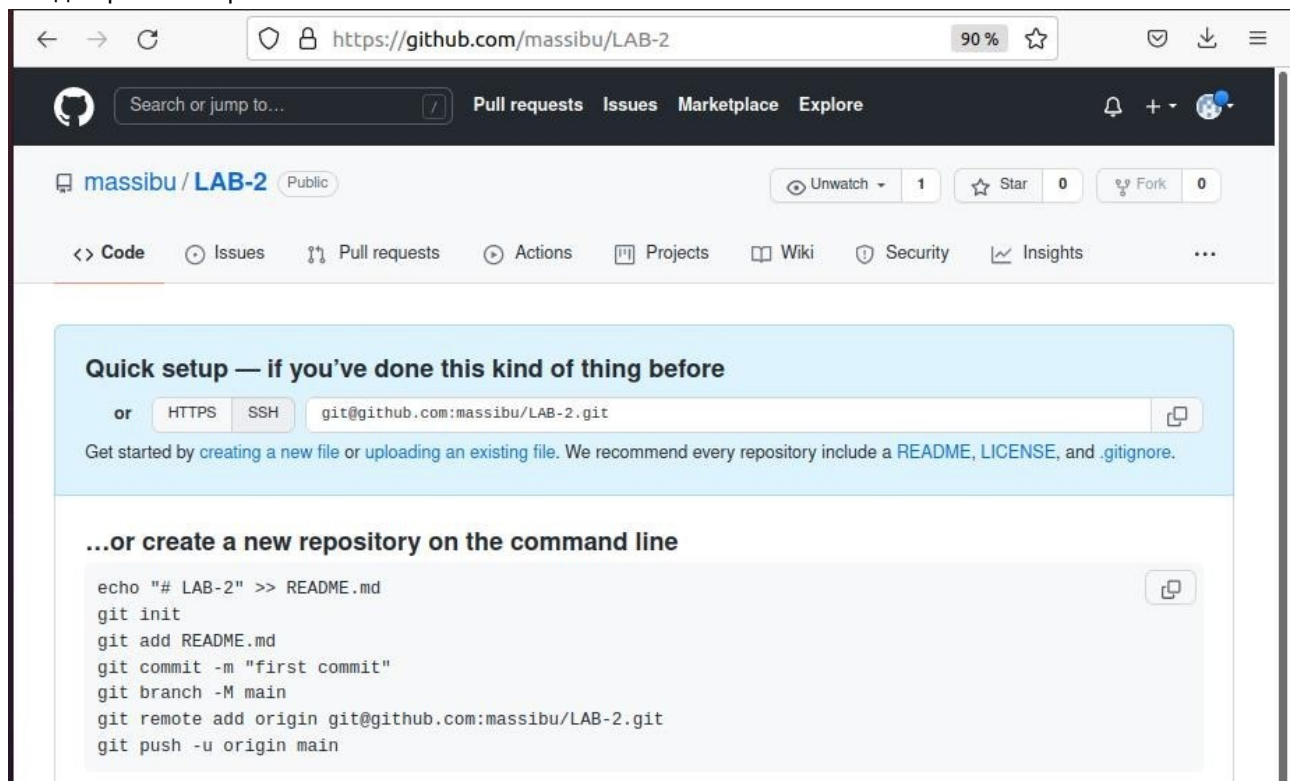
- Рécents
- Favoris
- Dossier personnel
- Bureau
- Documents
- Images

The main pane shows the contents of the 'work' directory, which includes two subdirectories:

- laboratory
- операционные системы

The top of the window has a navigation bar with tabs for 'Dossier personnel', 'work', and '2020-2021'.

#### 4. Создал репозиторий на GitHub.



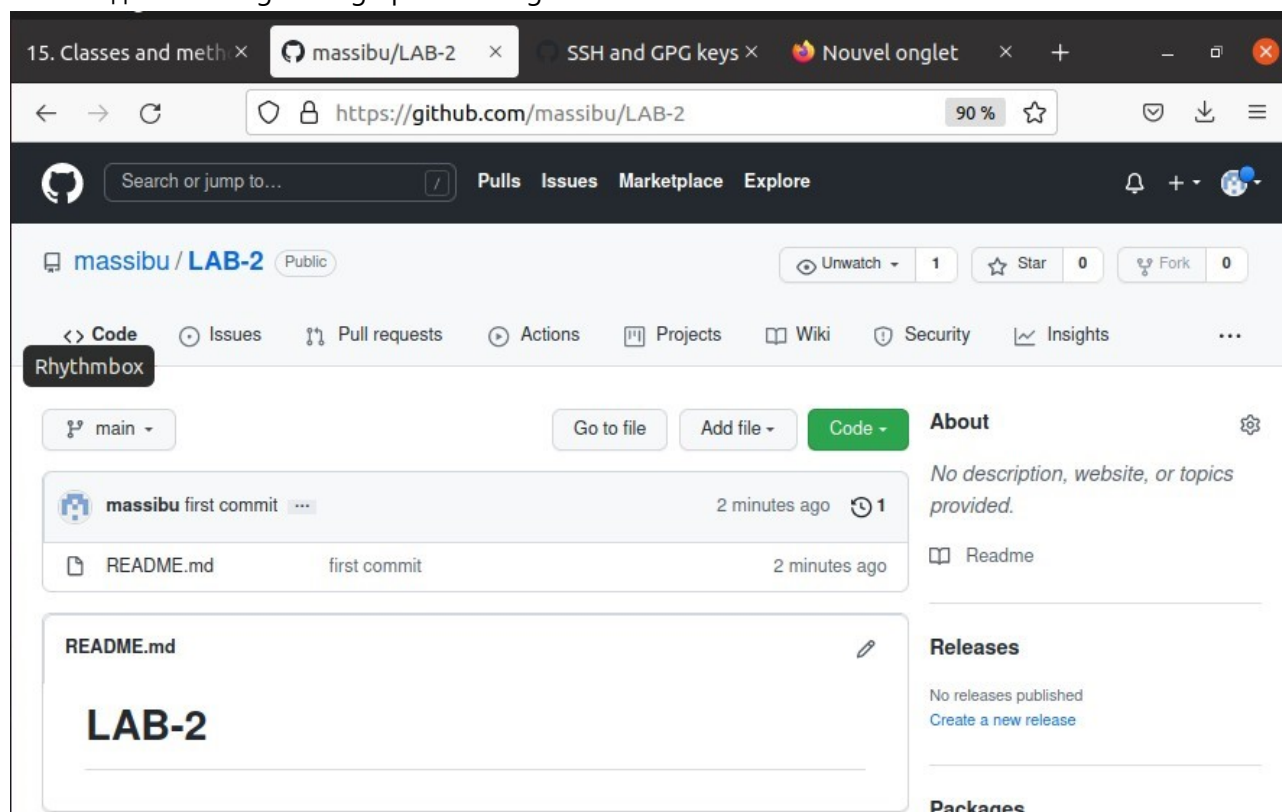
#### 5. Подключение репозитория к github

- Мы сначала клонируем репозиторий в каталоге
- Инициализируем системы git: `git init`
- Создаём заготовку для файла README.md: `echo "# lab2" >> README.md` `git add README.md`

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git clone git@github.com:massibu/LAB-2.git
Clonage dans 'LAB-2'...
warning: Vous semblez avoir cloné un dépôt vide.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ echo "# LAB-2" >> README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git init
Dépôt Git existant réinitialisé dans /home/massibu/work/2020-2021/laboratory/LAB-2/.git/
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -m "first commit"
[master (commit racine) 469044c] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git branch -M main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git remote add origin git@github.com:massibu/LAB-2.git
fatal: la distante origin existe déjà.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push -u origin main
Énumération des objets: 3, fait.
Décompte des objets: 100% (3/3), fait.
Écriture des objets: 100% (3/3), 216 octets | 108.00 Kio/s, fait.
Total 3 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
 * [new branch]      main -> main
La branche 'main' est paramétrée pour suivre la branche distante 'main' depuis 'origin'.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ wge
```

- Делаем первый коммит : `git commit -m "first commit"/` `git branch -M main/` `git remote add origin git@github.com:massibu/lab2.git`

- и выкладываем на github: `git push -u origin main`



## 6. Первичная конфигурация

- Добавил файл лицензии
- Добавил шаблон игнорируемых файлов
- Затем скачал шаблон для с
- Добавил новые файлы
- Выполнил коммит
- Отправил на github



```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ wget https://creativecommons.org/licenses/by/4.0/legalcode.txt -O LICENSE
--2021-10-29 17:15:47-- https://creativecommons.org/licenses/by/4.0/legalcode.txt
Résolution de creativecommons.org (creativecommons.org)... 104.20.151.16, 104.20.150.16, 172.67.34.140.....
C Rhythmbox ers creativecommons.org (creativecommons.org)[104.20.151.16]:443... connecté.
requête HTTP transmise, en attente de la réponse... 200 OK
Taille : non spécifié [text/plain]
Enregistre : «LICENSE»
```

```
LICENSE [ <=> ] 18,22K ---KB/s ds 0,08s
2021-10-29 17:15:48 (224 KB/s) - «LICENSE» enregistré [18657]
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ curl -L -s https://www.gitignore.io/api/list
ic,ic-bitrix,a-frame,actionsript,ada
adobe,advancedinstaller,adventuregamestudio,agda,al
alteraquartusii,altium,amplify,android,androidstudio
angular,anjuta,ansible,anstibletower,apachecordova
apachehadoop,appbuilder,appcelerator,titanium,appcode,appcode+all
appcode+iml,appengine,aptanastudio,arcanist,archive
archives,archlinuxpackages,aspnetcore,assembler,ate
atmelstudio,ats,audio,automationstudio,autotools
autotools+strict,awr,azurefunctions,azurite,backup
ballerina,basercms,basic,batch,bazaar
bazel,bitrise,bitrix,bittorrent,blackbox
bloop,bluej,bookdown,bower,bricxcc
buck,c,c++,cake,cakephp
cakephp2,cakephp3,calabash,carthage,certificates
ceylon,cfwheels,cheffcookbook,chocolatey,clean
clion,clion+all,clion+iml,closure,cloud9
cnahe,cocopods,cocos2dx,cocoscreator,codeblocks
codecomposerstudio,codeigniter,codeio,codekit,codesniffer
coffeescript,commonlisp,compodoc,composer,compressed
compressedarchive,compression,conan,concrete5,coq
cordova,craftcms,crashlytics,crbasic,crossbar
crystal,cs-cart,cssharp,cuda,cvs
cypressio,d,dart,darteditor,data
database,datarecovery,dbeaver,defold,delphi
dframe,diff,direnv,diskimage,django
```

```
putty,pvs,pycharm,pycharm+all,pycharm+iml
pydev,python,pythonvanilla,qml,qooxdoo
qt,qtcreator,r,racket,rails
react,reactnative,reasonml,red,redcar
redis,retool,rhodesrhomobile,rider,robotframework
root,ros,ros2,ruby,rubymine
rubymine+all,rubymine+iml,rust,salesforce,salesforcedx
sam,sam+config,sas,sass,sbt
scala,scheme,scons,scrivener,sdcc
seangen,senchatouch,serverless,shopware,silverstripe
sketchup,slickedit,smalltalk,snap,snapcraft
solidity,soliditytruffle,sonar,sonarqube,sourcepawn
spark,splunk,spreadsheet,ssh,standardml
stata,stdlib,stella,stellar,storybookjs
strapi,stylus,sublimetext,sugarcrm,svn
swift,swiftpackagemanager,swiftpm,symfony,symphonycms
synology,synopsysvcs,tags,tarinstallmate,terraform
terragrunt,test,testcomplete,testinfra,tex
text,textmate,textpattern,theos-tweak,thinkphp
tla+,tortoisegit,tower,turbogears2,twincat3
tye,typings,typo3,typo3-composer,umbraco
unity,unrealengine,vaadin,vagrant,valgrind
vapor,venv,vertx,video,vim
virtualenv,virtuoso,visualstudio,visualstudiocode,vivado
vlab,vs,vue,vuejs,vvvv
w Terminal da,web,webmethods,webstorm
websideinstall,webstorm+iml,werckercli,windows,wintersmith
wordpress,wyam,xamarinstudio,xcode,xcodeinjection
xilinx,xilinxise,xilinxvivado,xill,xojo
xtext,y86,yalc,yarn,yeoman
yii,yii2,zendframework,zephir,zig
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
```

```
fatal: le chemin '.gitignore' ne correspond à aucun fichier
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ curl -L -s https://www.gitignore.io/api/c >> .gitignore
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -a
```

```
[main 1a22209] second commit
```

```
2 files changed, 455 insertions(+)
```

```
create mode 100644 .gitignore
```

```
create mode 100644 LICENSE
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push
```

```
Énumération des objets: 5, fait.
```

```
Décompte des objets: 100% (5/5), fait.
```

```
Compression des objets: 100% (4/4), fait.
```

```
Écriture des objets: 100% (4/4), 6.43 Kio | 1.61 Mio/s, fait.
```

```
Total 4 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
 469044c..1a22209  main -> main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow init
```

## 7. Конфигурация git-flow

- Инициализировал git-flow
- Проверил что я на ветке develop
- Создал релиз с версией 1.0.0
- Запишем версию:
- Добавим в индекс:
- Залил релизную ветку в основную ветку
- Отправил данные на github
- Создал релиз на github.

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow init

Which branch should be used for bringing forth production releases?
- main
Branch name for production releases: [main]
Branch name for "next release" development: [develop]

How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] v
Hooks and filters directory? [/home/massibu/work/2020-2021/laboratory/LAB-2/.git/hooks]
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git branch
* develop
  main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow release start 1.0.0
Basculement sur la nouvelle branche 'release/1.0.0'

Summary of actions:
- A new branch 'release/1.0.0' was created, based on 'develop'
- You are now on branch 'release/1.0.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0.0'

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ echo "1.0.0" >> VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add VERSION
```

```

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -am 'chore(main): add v
ersion'
[release/1.0.0 c921b5f] chore(main): add version
 1 file changed, 1 insertion(+)
   create mode 100644 VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow release finish 1.0.0
Basculement sur la branche 'main'
Votre branche est à jour avec 'origin/main'.
Merge made by the 'recursive' strategy.
   Ubuntu Software | 1 insertion(+)
   create mode 100644 VERSION
Déjà sur 'main'
Votre branche est en avance sur 'origin/main' de 2 commits.
  (utilisez "git push" pour publier vos commits locaux)
Basculement sur la branche 'develop'
Merge made by the 'recursive' strategy.
   VERSION | 1 +
   1 file changed, 1 insertion(+)
   create mode 100644 VERSION
Branche release/1.0.0 supprimée (précédemment c921b5f).

Summary of actions:
- Release branch 'release/1.0.0' has been merged into 'main'
- The release was tagged 'v1.0.0'
- Release tag 'v1.0.0' has been back-merged into 'develop'
- Release branch 'release/1.0.0' has been locally deleted
- You are now on branch 'develop'

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --all
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --all
Énumération des objets: 6, fait.
Décompte des objets: 100% (6/6), fait.
Compression des objets: 100% (4/4), fait.
Écriture des objets: 100% (5/5), 500 octets | 83.00 Kio/s, fait.
Total 5 (delta 3), réutilisés 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:massibu/LAB-2.git
   1a22209..c004e2b  main -> main
   * [new branch]    develop -> develop
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --tags
Énumération des objets: 1, fait.
Décompte des objets: 100% (1/1), fait.
Écriture des objets: 100% (1/1), 157 octets | 22.00 Kio/s, fait.
Total 1 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
   * [new tag]       v1.0.0 -> v1.0.0
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$

```

← → ↻ <https://github.com/massibu/LAB-2> 90% ☆ 🔔 + 👤

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**develop** had recent pushes less than a minute ago [Compare & pull request](#)

main Go to file Add file Code

massibu Merge branch 'release/1.0.0' into main	1 minute ago	🕒 4
.gitignore	second commit	25 minutes ago
LICENSE	second commit	25 minutes ago
README.md	first commit	34 minutes ago
VERSION	chore(main): add version	2 minutes ago

VBox\_GAs\_6.1.26

README.md

# LAB-2

**About** ⚙️  
No description, website, or topics provided.  
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[CC-BY-4.0 License](#)

**Releases**  
🏷️ 1 tags  
[Create a new release](#)

**Packages**  
No packages published  
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Вывод:

Я Изучил идеологию и применение средств контроля версий.