РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ
ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

дисциплина: Архитектура компьютера

Студент: Кара Е. А.

Группа: НБИбд-01-25
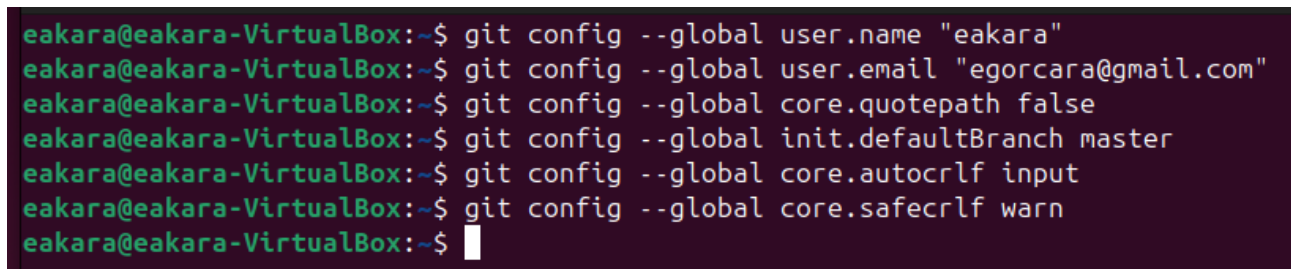
МОСКВА

2025 г.

1. Цель работы

Целью работы является изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

2. Самостоятельная работа

1. Создайте отчет по выполнению лабораторной работы в соответствующем каталоге рабочего пространства (labs>lab03>report).
2. Скопируйте отчеты по выполнению предыдущих лабораторных работ в соответствующие каталоги созданного рабочего пространства.
3. Загрузите файлы на github.

3. Выполнение работы

3.1 Базовая настройка git


```
eakara@eakara-VirtualBox:~$ git config --global user.name "eakara"
eakara@eakara-VirtualBox:~$ git config --global user.email "egorcara@gmail.com"
eakara@eakara-VirtualBox:~$ git config --global core.quotepath false
eakara@eakara-VirtualBox:~$ git config --global init.defaultBranch master
eakara@eakara-VirtualBox:~$ git config --global core.autocrlf input
eakara@eakara-VirtualBox:~$ git config --global core.safecrlf warn
eakara@eakara-VirtualBox:~$
```

Рис. 1

Сделал предварительную конфигурацию git, указал имя и e-mail владельца репозитория (Рис. 1)
Настроил utf-8 в выводе сообщений git (Рис. 1)
Задал имя начальной ветки (Рис. 1)
Ввёл параметры autocrlf и safecrlf (Рис. 1)

3.2 Создание SSH-ключа

Рис. 2

Сгенерировал ключи (Рис. 2)

Рис. 3

Вставил сгенерированный SSH-ключ в github (Рис. 3)

3.3 Создание рабочего пространства и репозитория курса на основе шаблона

```
eakara@eakara-VirtualBox:~$ mkdir -p ~/work/study/2025-2026/"Computer architecture"
eakara@eakara-VirtualBox:~$ cd ~/work/study/2025-2026/"Computer architecture"
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture$
```

Рис. 4

Открыл терминал и создал каталог для предмета «Архитектура компьютера» («Computer architecture») (Рис. 4)

```
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture$ git clone --recursive git@github.com:EgorCara/study_2025-2026_arh-pc.git arch-pc
Cloning into 'arch-pc'...
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (38/38), done.
remote: Compressing objects: 100% (36/36), done.
remote: Total 38 (delta 1), reused 28 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (38/38), 23.52 KiB | 3.92 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/home/eakara/work/study/2025-2026/Computer architecture/arch-pc/template/presentation'...
remote: Enumerating objects: 182, done.
remote: Counting objects: 100% (182/182), done.
remote: Compressing objects: 100% (122/122), done.
remote: Total 182 (delta 70), reused 162 (delta 50), pack-reused 0 (from 0)
Receiving objects: 100% (182/182), 2.65 MiB | 5.21 MiB/s, done.
Resolving deltas: 100% (70/70), done.
Cloning into '/home/eakara/work/study/2025-2026/Computer architecture/arch-pc/template/report'...
remote: Enumerating objects: 239, done.
remote: Counting objects: 100% (239/239), done.
remote: Compressing objects: 100% (163/163), done.
remote: Total 239 (delta 105), reused 196 (delta 62), pack-reused 0 (from 0)
Receiving objects: 100% (239/239), 771.21 KiB | 2.93 MiB/s, done.
Resolving deltas: 100% (105/105), done.
Submodule path 'template/presentation': checked out 'a1bc497b7b15dd240c7c105508f478f0bcc345e7'
Submodule path 'template/report': checked out '192c8bcd638d72c8ad0f3b98a67d4e7ed4c5db16'
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture$
```

Рис. 5

Клонировал репозиторий (Рис. 5)

3.4 Настройка каталога курса

```
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture$ cd ~/work/study/2025-2026/"Computer architecture"/arch-pc
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$
```

Рис. 6

Перешел в каталог курса (Рис. 6)

```
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$ echo arch-pc > COURSE
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$ make prepare
```

Рис. 7

Создал необходимые каталоги (Рис. 7)

```
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$ git add .
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$ git commit -am 'feat(main): make course structure'
[master 5000766] feat(main): make course structure
 260 files changed, 8746 insertions(+), 216 deletions(-)
 delete mode 100644 CHANGELOG.md
 create mode 100644 labs/README.md
 create mode 100644 labs/README.ru.md
 create mode 100644 labs/lab01/presentation/.gitignore
 create mode 100644 labs/lab01/presentation/.marksman.toml
 create mode 100644 labs/lab01/presentation/.projectile
 create mode 100644 labs/lab01/presentation/Makefile
 create mode 100644 labs/lab01/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab01/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab01/presentation/_assets/beamer.tex
 create mode 100644 labs/lab01/presentation/_quarto.yml
 create mode 100644 labs/lab01/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab01/presentation/arch-pc--lab01--presentation.qmd
 create mode 100644 labs/lab01/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab01/report/.gitignore
 create mode 100644 labs/lab01/report/.marksman.toml
 create mode 100644 labs/lab01/report/.projectile
 create mode 100644 labs/lab01/report/Makefile
 create mode 100644 labs/lab01/report/_assets/preamble.tex
 create mode 100644 labs/lab01/report/_quarto.yml
 create mode 100644 labs/lab01/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab01/report/arch-pc--lab01--report.qmd
 create mode 100644 labs/lab01/report/bib/cite.bib
 create mode 100644 labs/lab01/report/image/solvay.jpg
 create mode 100644 labs/lab02/presentation/.gitignore
 create mode 100644 labs/lab02/presentation/.marksman.toml
 create mode 100644 labs/lab02/presentation/.projectile
 create mode 100644 labs/lab02/presentation/Makefile
 create mode 100644 labs/lab02/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab02/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab02/presentation/_assets/beamer.tex
 create mode 100644 labs/lab02/presentation/_quarto.yml
 create mode 100644 labs/lab02/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab02/presentation/arch-pc--lab02--presentation.qmd
 create mode 100644 labs/lab02/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab02/report/.gitignore
 create mode 100644 labs/lab02/report/.marksman.toml
 create mode 100644 labs/lab02/report/.projectile
 create mode 100644 labs/lab02/report/Makefile
 create mode 100644 labs/lab02/report/_assets/preamble.tex
 create mode 100644 labs/lab02/report/_quarto.yml
 create mode 100644 labs/lab02/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab02/report/arch-pc--lab02--report.qmd
 create mode 100644 labs/lab02/report/bib/cite.bib
 create mode 100644 labs/lab02/report/image/solvay.jpg
 create mode 100644 labs/lab03/presentation/.gitignore
 create mode 100644 labs/lab03/presentation/.marksman.toml
 create mode 100644 labs/lab03/presentation/.projectile
 create mode 100644 labs/lab03/presentation/Makefile
 create mode 100644 labs/lab03/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab03/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab03/presentation/_assets/beamer.tex
 create mode 100644 labs/lab03/presentation/_quarto.yml
 create mode 100644 labs/lab03/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab03/presentation/arch-pc--lab03--presentation.qmd
 create mode 100644 labs/lab03/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab03/report/.gitignore
 create mode 100644 labs/lab03/report/.marksman.toml
 create mode 100644 labs/lab03/report/.projectile
 create mode 100644 labs/lab03/report/Makefile
 create mode 100644 labs/lab03/report/_assets/preamble.tex
 create mode 100644 labs/lab03/report/_quarto.yml
 create mode 100644 labs/lab03/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab03/report/arch-pc--lab03--report.qmd
 create mode 100644 labs/lab03/report/bib/cite.bib
 create mode 100644 labs/lab03/report/image/solvay.jpg
 create mode 100644 labs/lab04/presentation/.gitignore
```

```
create mode 100644 labs/lab04/report/.marksman.toml
create mode 100644 labs/lab04/report/.projectile
create mode 100644 labs/lab04/report/Makefile
create mode 100644 labs/lab04/report/_assets/preamble.tex
create mode 100644 labs/lab04/report/_quarto.yml
create mode 100644 labs/lab04/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab04/report/arch-pc--lab04--report.qmd
create mode 100644 labs/lab04/report/bib/cite.bib
create mode 100644 labs/lab04/report/image/solvay.jpg
create mode 100644 labs/lab05/presentation/.gitignore
create mode 100644 labs/lab05/presentation/.marksman.toml
create mode 100644 labs/lab05/presentation/.projectile
create mode 100644 labs/lab05/presentation/Makefile
create mode 100644 labs/lab05/presentation/_assets/auto/beamer.el
create mode 100644 labs/lab05/presentation/_assets/auto/preamble.el
create mode 100644 labs/lab05/presentation/_assets/beamer.tex
create mode 100644 labs/lab05/presentation/_quarto.yml
create mode 100644 labs/lab05/presentation/_resources/image/logo_rudn.png
create mode 100644 labs/lab05/presentation/arch-pc--lab05--presentation.qmd
create mode 100644 labs/lab05/presentation/image/kulyabov.jpg
create mode 100644 labs/lab05/report/.gitignore
create mode 100644 labs/lab05/report/.marksman.toml
create mode 100644 labs/lab05/report/.projectile
create mode 100644 labs/lab05/report/Makefile
create mode 100644 labs/lab05/report/_assets/preamble.tex
create mode 100644 labs/lab05/report/_quarto.yml
create mode 100644 labs/lab05/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab05/report/arch-pc--lab05--report.qmd
create mode 100644 labs/lab05/report/bib/cite.bib
create mode 100644 labs/lab05/report/image/solvay.jpg
create mode 100644 labs/lab06/presentation/.gitignore
create mode 100644 labs/lab06/presentation/.marksman.toml
create mode 100644 labs/lab06/presentation/.projectile
create mode 100644 labs/lab06/presentation/Makefile
create mode 100644 labs/lab06/presentation/_assets/auto/beamer.el
create mode 100644 labs/lab06/presentation/_assets/auto/preamble.el
create mode 100644 labs/lab06/presentation/_assets/auto/preamble.el
create mode 100644 labs/lab06/presentation/_assets/beamer.tex
create mode 100644 labs/lab06/presentation/_quarto.yml
create mode 100644 labs/lab06/presentation/_resources/image/logo_rudn.png
create mode 100644 labs/lab06/presentation/arch-pc--lab06--presentation.qmd
create mode 100644 labs/lab06/presentation/image/kulyabov.jpg
create mode 100644 labs/lab06/report/.gitignore
create mode 100644 labs/lab06/report/.marksman.toml
create mode 100644 labs/lab06/report/.projectile
create mode 100644 labs/lab06/report/Makefile
create mode 100644 labs/lab06/report/_assets/preamble.tex
create mode 100644 labs/lab06/report/_quarto.yml
create mode 100644 labs/lab06/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab06/report/arch-pc--lab06--report.qmd
create mode 100644 labs/lab06/report/bib/cite.bib
create mode 100644 labs/lab06/report/image/solvay.jpg
create mode 100644 labs/lab07/presentation/.gitignore
create mode 100644 labs/lab07/presentation/.marksman.toml
create mode 100644 labs/lab07/presentation/.projectile
create mode 100644 labs/lab07/presentation/Makefile
create mode 100644 labs/lab07/presentation/_assets/auto/beamer.el
create mode 100644 labs/lab07/presentation/_assets/auto/preamble.el
create mode 100644 labs/lab07/presentation/_assets/beamer.tex
create mode 100644 labs/lab07/presentation/_quarto.yml
create mode 100644 labs/lab07/presentation/_resources/image/logo_rudn.png
create mode 100644 labs/lab07/presentation/arch-pc--lab07--presentation.qmd
create mode 100644 labs/lab07/presentation/image/kulyabov.jpg
create mode 100644 labs/lab07/report/.gitignore
create mode 100644 labs/lab07/report/.marksman.toml
create mode 100644 labs/lab07/report/.projectile
create mode 100644 labs/lab07/report/Makefile
create mode 100644 labs/lab07/report/_assets/preamble.tex
create mode 100644 labs/lab07/report/_quarto.yml
create mode 100644 labs/lab07/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab07/report/arch-pc--lab07--report.qmd
create mode 100644 labs/lab07/report/bib/cite.bib
create mode 100644 labs/lab07/report/image/solvay.jpg
```

```
 create mode 100644 labs/lab08/presentation/.gitignore
 create mode 100644 labs/lab08/presentation/.marksman.toml
 create mode 100644 labs/lab08/presentation/.projectile
 create mode 100644 labs/lab08/presentation/Makefile
 create mode 100644 labs/lab08/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab08/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab08/presentation/_assets/beamer.tex
 create mode 100644 labs/lab08/presentation/_quarto.yml
 create mode 100644 labs/lab08/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab08/presentation/arch-pc--lab08--presentation.qmd
 create mode 100644 labs/lab08/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab08/report/.gitignore
 create mode 100644 labs/lab08/report/.marksman.toml
 create mode 100644 labs/lab08/report/.projectile
 create mode 100644 labs/lab08/report/Makefile
 create mode 100644 labs/lab08/report/_assets/preamble.tex
 create mode 100644 labs/lab08/report/_quarto.yml
 create mode 100644 labs/lab08/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab08/report/arch-pc--lab08--report.qmd
 create mode 100644 labs/lab08/report/bib/cite.bib
 create mode 100644 labs/lab08/report/image/solvay.jpg
 create mode 100644 labs/lab09/presentation/.gitignore
 create mode 100644 labs/lab09/presentation/.marksman.toml
 create mode 100644 labs/lab09/presentation/.projectile
 create mode 100644 labs/lab09/presentation/Makefile
 create mode 100644 labs/lab09/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab09/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab09/presentation/_assets/beamer.tex
 create mode 100644 labs/lab09/presentation/_quarto.yml
 create mode 100644 labs/lab09/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab09/presentation/arch-pc--lab09--presentation.qmd
 create mode 100644 labs/lab09/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab09/report/.gitignore
 create mode 100644 labs/lab09/report/.marksman.toml
 create mode 100644 labs/lab09/report/.projectile
 create mode 100644 labs/lab09/report/Makefile
 create mode 100644 labs/lab09/report/_assets/preamble.tex
 create mode 100644 labs/lab09/report/_quarto.yml
 create mode 100644 labs/lab09/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab09/report/arch-pc--lab09--report.qmd
 create mode 100644 labs/lab09/report/bib/cite.bib
 create mode 100644 labs/lab09/report/image/solvay.jpg
 create mode 100644 labs/lab10/presentation/.gitignore
 create mode 100644 labs/lab10/presentation/.marksman.toml
 create mode 100644 labs/lab10/presentation/.projectile
 create mode 100644 labs/lab10/presentation/Makefile
 create mode 100644 labs/lab10/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab10/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab10/presentation/_assets/beamer.tex
 create mode 100644 labs/lab10/presentation/_quarto.yml
 create mode 100644 labs/lab10/presentation/_resources/image/logo_rudn.png
 create mode 100644 labs/lab10/presentation/arch-pc--lab10--presentation.qmd
 create mode 100644 labs/lab10/presentation/image/kulyabov.jpg
 create mode 100644 labs/lab10/report/.gitignore
 create mode 100644 labs/lab10/report/.marksman.toml
 create mode 100644 labs/lab10/report/.projectile
 create mode 100644 labs/lab10/report/Makefile
 create mode 100644 labs/lab10/report/_assets/preamble.tex
 create mode 100644 labs/lab10/report/_quarto.yml
 create mode 100644 labs/lab10/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
 create mode 100644 labs/lab10/report/arch-pc--lab10--report.qmd
 create mode 100644 labs/lab10/report/bib/cite.bib
 create mode 100644 labs/lab10/report/image/solvay.jpg
 create mode 100644 labs/lab11/presentation/.gitignore
 create mode 100644 labs/lab11/presentation/.marksman.toml
 create mode 100644 labs/lab11/presentation/.projectile
 create mode 100644 labs/lab11/presentation/Makefile
 create mode 100644 labs/lab11/presentation/_assets/auto/beamer.el
 create mode 100644 labs/lab11/presentation/_assets/auto/preamble.el
 create mode 100644 labs/lab11/presentation/_assets/beamer.tex
 create mode 100644 labs/lab11/presentation/_quarto.yml
 create mode 100644 labs/lab11/presentation/_resources/image/logo_rudn.png
```

```
create mode 100644 labs/lab11/presentation/arch-pc--lab11--presentation.qmd
create mode 100644 labs/lab11/presentation/image/kulyabov.jpg
create mode 100644 labs/lab11/report/.gitignore
create mode 100644 labs/lab11/report/.marksman.toml
create mode 100644 labs/lab11/report/.projectile
create mode 100644 labs/lab11/report/Makefile
create mode 100644 labs/lab11/report/_assets/preamble.tex
create mode 100644 labs/lab11/report/_quarto.yml
create mode 100644 labs/lab11/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab11/report/arch-pc--lab11--report.qmd
create mode 100644 labs/lab11/report/bib/cite.bib
create mode 100644 labs/lab11/report/image/solvay.jpg
create mode 100644 prepare
create mode 100644 presentation/README.md
create mode 100644 presentation/README.ru.md
create mode 100644 presentation/presentation/.gitignore
create mode 100644 presentation/presentation/.marksman.toml
create mode 100644 presentation/presentation/.projectile
create mode 100644 presentation/presentation/Makefile
create mode 100644 presentation/presentation/_assets/auto/beamer.el
create mode 100644 presentation/presentation/_assets/auto/preamble.el
create mode 100644 presentation/presentation/_assets/beamer.tex
create mode 100644 presentation/presentation/_quarto.yml
create mode 100644 presentation/presentation/_resources/image/logo_rudn.png
create mode 100644 presentation/presentation/arch-pc--presentation--presentation.qmd
create mode 100644 presentation/presentation/image/kulyabov.jpg
create mode 100644 presentation/report/.gitignore
create mode 100644 presentation/report/.marksman.toml
create mode 100644 presentation/report/.projectile
create mode 100644 presentation/report/Makefile
create mode 100644 presentation/report/_assets/preamble.tex
create mode 100644 presentation/report/_quarto.yml
create mode 100644 presentation/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 presentation/report/arch-pc--presentation--report.qmd
create mode 100644 presentation/report/bib/cite.bib
create mode 100644 presentation/report/image/solvay.jpg
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$
```

Рис. 8

Отправил файлы на сервер (Рис. 8, Рис.9)


```
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 365 bytes | 365.00 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.
To github.com:EgorCara/study_2025-2026_arh-pc.git
   5000766..c6bc444  master -> master
eakara@eakara-VirtualBox:~/work/study/2025-2026/Computer architecture/arch-pc$
```
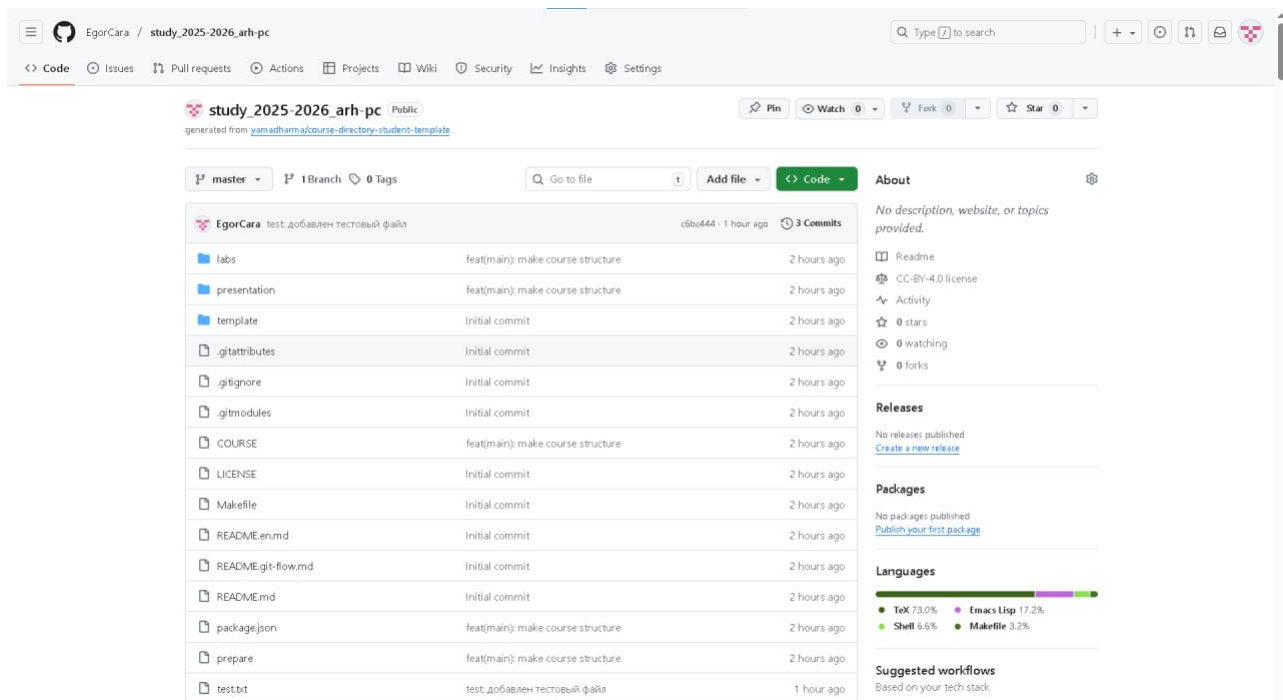
(Рис. 9)

Рис. 10

Проверка прошла успешно (Рис. 10)

Заключение

Я изучил идеологию и применение git. Приобрел практические навыки работы с репозиторией.