

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ

ПО ЛАБОРАТОРНОЙ РАБОТЕ № 3 дисциплина:

*Архитектура компьютера*_____

Студент: Оразгелдиев Язгелди

Группа: НКАбд-04-22

МОСКВА

2022 г.

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

1. Создал учетную запись на сайте Github для дальнейшей работы.

The screenshot shows the GitHub profile page for user **YazgeldiOrazgeldiyev**. The profile includes a green and white avatar, a bio, and a button to **Edit profile**. It also shows the user joined 7 days ago. The **Overview** tab is selected, displaying popular repositories, including `study_2022-2023_arh-pc` (Public) by `TeX`. Below this, a contribution chart shows 5 contributions in the last year, with a legend indicating the number of contributions per day (Less, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, More). The chart shows contributions in February, March, April, May, June, July, August, September, and October. The **Contribution activity** section is also visible.

2. Первым делом создал конфигурацию «git», настроил utf-8 в выводе сообщений git, задал имя начальной ветки , также определил параметры

«autocrlf» и «safecrlf».

```
orazgeldiyevy@fedora:~  
orazgeldiyevy@fedora ~]$ dit config --global user.name "<Orazgeldiyev>"  
bash: dit: команда не найдена...  
orazgeldiyevy@fedora ~]$ git config --global user.name "<Orazgeldiyev>"  
orazgeldiyevy@fedora ~]$ git config --global user.email "<orazgeldiyev.yazgeldi@gmail.com>"  
orazgeldiyevy@fedora ~]$ git config --global core.quotepath false  
orazgeldiyevy@fedora ~]$ git config --global init.defaultBranch master  
orazgeldiyevy@fedora ~]$ git config --global core.autocrlf input  
orazgeldiyevy@fedora ~]$ git config --global core.safecrlf warn  
orazgeldiyevy@fedora ~]$
```

3. Создал ключ SSH.

```
orazgeldiyevy@fedora:~  
[orazgeldiyevy@fedora ~]$ ssh-keygen -C "test_only <orazgeldiyev.yazgeldi@gmail.com>"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/home/orazgeldiyevy/.ssh/id_rsa):  
/home/orazgeldiyevy/.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/orazgeldiyevy/.ssh/id_rsa  
Your public key has been saved in /home/orazgeldiyevy/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:UJBS/NEKehi1GVFcjo0ucIF8EqV7R3b/vIM0vsXT71c test_only <orazgeldiyev.yazgeldi@gmail.com>  
The key's randomart image is:  
+---[RSA 3072]---+  
| ..+***00. |  
| . +o ++00. |  
| = o=B0+o. |  
| +o=.000 |  
| o o.o S . |  
| + o . + E |  
| . . +. + . |  
| . o...o . |  
| oo. .oo. |  
+-----[SHA256]-----+  
[orazgeldiyevy@fedora ~]$
```

4. Скопировал ключ через функцию «cat» в буфер обмена

```
orazgeldiyevy@fedora:~  
[orazgeldiyevy@fedora ~]$ cat ~/.ssh/id_rsa.pub | xclip -sel clip  
[orazgeldiyevy@fedora ~]$
```

5. Скопировав ключ, вставил его на сайте GitHub в «новый ключ» в список моих SSH ключей.

The screenshot shows the GitHub profile page for 'YazgeldiOrazgeldiyev'. On the left is a sidebar with navigation links: Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and plans, Emails, Password and authentication, SSH and GPG keys (highlighted), Organizations, and Moderation. The main content area is titled 'SSH keys' and includes a 'New SSH key' button. Below the title is a description: 'This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.' Under 'Authentication Keys', there is one key listed for 'orazgeldiyev' with a SHA256 fingerprint, a 'Delete' button, and details about when it was added and its usage. Below this is a link to a guide on generating SSH keys. The 'GPG keys' section below it shows that no GPG keys are associated with the account and provides a link to learn how to generate one.

6. Через командную строку с помощью «mkdir» создал каталог “Архитектура компьютера”

```
[orazgeldiyevy@fedora ~]$ mkdir -p ~/work/study/2022-2023/"Архитектура компьютера"  
[orazgeldiyevy@fedora ~]$
```

7. На GitHub создал репозиторий с именем «study_2022–2023_arh-pc»

Create a new repository from course-directory-student-template
The new repository will start with the same files and folders as [yamadharm/course-directory-student-template](#).

Owner * / Repository name *

Great repository names are short and simple. Your new repository will be created as `study_2022-2023_arh-pc`. [Learn more](#)

Description (optional)

☒ Public
Anyone on the internet can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

☐ Include all branches
Copy all branches from `yamadharm/course-directory-student-template` and not just `master`.

You are creating a public repository in your personal account.

[Create repository from template](#)

8. Перешел в созданный каталог «Архитектура компьютера» и клонировал туда созданный репозиторий с помощью команды «git clone –recursive “link”».

Ссылку link взял с GitHub с репозитория.

```
[orazgeldiyevy@fedora arch-pc]$ cd ~/work/study/2022-2023/«Архитектура компьютера»
[orazgeldiyevy@fedora Архитектура компьютера]$ git clone --recursive git@github.com:YazgeldiOrazge
ldiyev/study_2022-2023_arh-pc.git
Клонирование в «study_2022-2023_arh-pc»...
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (26/26), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 26 (delta 0), reused 17 (delta 0), pack-reused 0
Получение объектов: 100% (26/26), 16.40 КиБ | 1.26 МиБ/с, готово.
Подмодуль «template/presentation» (https://github.com/yamadharm/academic-presentation-markdown-te
mplate.git) зарегистрирован по пути «template/presentation»
Подмодуль «template/report» (https://github.com/yamadharm/academic-laboratory-report-template.git
) зарегистрирован по пути «template/report»
Клонирование в «/home/orazgeldiyevy/work/study/2022-2023/Архитектура компьютера/study_2022-2023_ar
h-pc/template/presentation»...
remote: Enumerating objects: 71, done.
remote: Counting objects: 100% (71/71), done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 71 (delta 23), reused 68 (delta 20), pack-reused 0
Получение объектов: 100% (71/71), 88.89 КиБ | 866.00 КиБ/с, готово.
Определение изменений: 100% (23/23), готово.
Клонирование в «/home/orazgeldiyevy/work/study/2022-2023/Архитектура компьютера/study_2022-2023_ar
h-pc/template/report»...
remote: Enumerating objects: 78, done.
remote: Counting objects: 100% (78/78), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 78 (delta 31), reused 69 (delta 22), pack-reused 0
Получение объектов: 100% (78/78), 292.27 КиБ | 1.45 МиБ/с, готово.
Определение изменений: 100% (31/31), готово.
Submodule path 'template/presentation': checked out '2703b47423792d472694aaf7555a562dce51a25'
Submodule path 'template/report': checked out 'df7b2ef80f8def3b9a496f8695277469a1a7842a'
[orazgeldiyevy@fedora Архитектура компьютера]$
```

9. Удалил лишние файлы через `rm package.json`, создал необходимые каталоги `echo arch-pc > COURSE`, `make`. После всего отправил файлы на сервер с помощью

git add . , git commit -am 'feat(main): make course structure', git push.

```
orazgeldiyevy@fedora:~/work/study/2022-2023/Архитектура компьютера/study_2022-2023_arh-pc
[orazgeldiyevy@fedora Архитектура компьютера]$ cd ~/work/study/2022-2023/'Архитектура компьютера'/study_2022-2023_arh-pc
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ rm package.json
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ echo arch-pc > COURSE
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ make
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ git add .
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ git commit -am 'feat(main):make course structure'
[master 1aa774c] feat(main):make course structure
91 files changed, 8229 insertions(+), 14 deletions(-)
create mode 100644 labs/lab01/presentation/Makefile
create mode 100644 labs/lab01/presentation/image/kulyabov.jpg
create mode 100644 labs/lab01/presentation/presentation.md
create mode 100644 labs/lab01/report/Makefile
create mode 100644 labs/lab01/report/bib/cite.bib
create mode 100644 labs/lab01/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab01/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab01/report/report.md
create mode 100644 labs/lab02/presentation/Makefile
create mode 100644 labs/lab02/presentation/image/kulyabov.jpg
create mode 100644 labs/lab02/presentation/presentation.md
create mode 100644 labs/lab02/report/Makefile
create mode 100644 labs/lab02/report/bib/cite.bib
create mode 100644 labs/lab02/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab02/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab02/report/report.md
create mode 100644 labs/lab03/presentation/Makefile
create mode 100644 labs/lab03/presentation/image/kulyabov.jpg
create mode 100644 labs/lab03/presentation/presentation.md
create mode 100644 labs/lab03/report/Makefile
create mode 100644 labs/lab03/report/bib/cite.bib
create mode 100644 labs/lab03/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab03/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab03/report/report.md
create mode 100644 labs/lab04/presentation/Makefile
create mode 100644 labs/lab04/presentation/image/kulyabov.jpg
create mode 100644 labs/lab04/presentation/presentation.md
```

```
orazgeldiyevy@fedora:~/work/study/2022-2023/Архитектура компьютера/study_2022-2023_arh-pc
create mode 100644 labs/lab04/report/Makefile
create mode 100644 labs/lab04/report/bib/cite.bib
create mode 100644 labs/lab04/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab04/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab04/report/report.md
create mode 100644 labs/lab05/presentation/Makefile
create mode 100644 labs/lab05/presentation/image/kulyabov.jpg
create mode 100644 labs/lab05/presentation/presentation.md
create mode 100644 labs/lab05/report/Makefile
create mode 100644 labs/lab05/report/bib/cite.bib
create mode 100644 labs/lab05/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab05/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab05/report/report.md
create mode 100644 labs/lab06/presentation/Makefile
create mode 100644 labs/lab06/presentation/image/kulyabov.jpg
create mode 100644 labs/lab06/presentation/presentation.md
create mode 100644 labs/lab06/report/Makefile
create mode 100644 labs/lab06/report/bib/cite.bib
create mode 100644 labs/lab06/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab06/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab06/report/report.md
create mode 100644 labs/lab07/presentation/Makefile
create mode 100644 labs/lab07/presentation/image/kulyabov.jpg
create mode 100644 labs/lab07/presentation/presentation.md
create mode 100644 labs/lab07/report/Makefile
create mode 100644 labs/lab07/report/bib/cite.bib
create mode 100644 labs/lab07/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab07/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab07/report/report.md
create mode 100644 labs/lab08/presentation/Makefile
create mode 100644 labs/lab08/presentation/image/kulyabov.jpg
create mode 100644 labs/lab08/presentation/presentation.md
create mode 100644 labs/lab08/report/Makefile
create mode 100644 labs/lab08/report/bib/cite.bib
create mode 100644 labs/lab08/report/image/placeimg_800_600_tech.jpg
```

```
orazgeldiyevy@fedora:~/work/study/2022-2023/Архитектура компьютера/study_2022-2023_arh-pc
create mode 100644 labs/lab08/presentation/Makefile
create mode 100644 labs/lab08/presentation/image/kulyabov.jpg
create mode 100644 labs/lab08/presentation/presentation.md
create mode 100644 labs/lab08/report/Makefile
create mode 100644 labs/lab08/report/bib/cite.bib
create mode 100644 labs/lab08/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab08/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab08/report/report.md
create mode 100644 labs/lab09/presentation/Makefile
create mode 100644 labs/lab09/presentation/image/kulyabov.jpg
create mode 100644 labs/lab09/presentation/presentation.md
create mode 100644 labs/lab09/report/Makefile
create mode 100644 labs/lab09/report/bib/cite.bib
create mode 100644 labs/lab09/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab09/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab09/report/report.md
create mode 100644 labs/lab10/presentation/Makefile
create mode 100644 labs/lab10/presentation/image/kulyabov.jpg
create mode 100644 labs/lab10/presentation/presentation.md
create mode 100644 labs/lab10/report/Makefile
create mode 100644 labs/lab10/report/bib/cite.bib
create mode 100644 labs/lab10/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab10/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab10/report/report.md
create mode 100644 labs/lab11/presentation/Makefile
create mode 100644 labs/lab11/presentation/image/kulyabov.jpg
create mode 100644 labs/lab11/presentation/presentation.md
create mode 100644 labs/lab11/report/Makefile
create mode 100644 labs/lab11/report/bib/cite.bib
create mode 100644 labs/lab11/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab11/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab11/report/report.md
delete mode 100644 package.json
create mode 100644 prepare
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$
```

```
orazgeldiyevy@fedora:~/work/study/2022-2023/Архитектура компьютера/stu...
[orazgeldiyevy@fedora ~]$ git add .
fatal: не найден git репозиторий (или один из его каталогов вплоть до точки монтирования /)
Останавливаю поиск на границе файловой системы (так как GIT_DISCOVERY_ACROSS_FILESYSTEM не ус
тановлен).
[orazgeldiyevy@fedora ~]$ cd ~/work/study/2022-2023/Архитектура компьютера/study_2022-2023_
arh-pc
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ rm package.json
rm: невозможно удалить 'package.json': Нет такого файла или каталога
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ git commit -am 'feat(main):make course structu
re'
На ветке master
Ваша ветка опережает «origin/master» на 1 коммит.
(используйте «git push», чтобы опубликовать ваши локальные коммиты)

ничего коммитить, нет изменений в рабочем каталоге
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$ git push
Перечисление объектов: 22, готово.
Подсчет объектов: 100% (22/22), готово.
Сжатие объектов: 100% (16/16), готово.
Запись объектов: 100% (20/20), 310.95 Киб | 2.57 Миб/с, готово.
Всего 20 (изменений 1), повторно использовано 0 (изменений 0), повторно использовано пакетов
0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:YazgeldiOrazgeldiyev/study_2022-2023_arh-pc.git
 3517307..1aa774c master -> master
[orazgeldiyevy@fedora study_2022-2023_arh-pc]$
```

10. Все команды сработали, появились необходимая папка «labs» на GitHub.

master

Go to file

Add file

Code

About

YazgeldiOrazgeldiyev feat(main):make course s... 25 minutes ago 2

config	Initial commit	1 hour ago
labs	feat(main):make course structure	25 minutes ago
template	Initial commit	1 hour ago
.gitattributes	Initial commit	1 hour ago
.gitignore	Initial commit	1 hour ago
.gitmodules	Initial commit	1 hour ago
CHANGELOG.md	Initial commit	1 hour ago
COURSE	feat(main):make course structure	25 minutes ago
LICENSE	Initial commit	1 hour ago
Makefile	Initial commit	1 hour ago
README.en.md	Initial commit	1 hour ago
README.git-flow...	Initial commit	1 hour ago
README.md	Initial commit	1 hour ago
prepare	feat(main):make course structure	25 minutes ago

No description, website, or topics provided.

Readme

CC-BY-4.0 license

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Languages

TeX 84.3%

Makefile 13.3%

Shell 2.4%

Самостоятельная работа

1. На сайте GitHub в свой репозиторий, потом перешел в папку labs, увидел 11 папок на для лабораторных работ.

master

study_2022-2023_arh-pc / labs /

Go to file


Add file





YazgeldiOrazgeldiyev feat(main):make course structure 26 minutes ago History









..



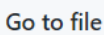
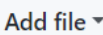

lab01	feat(main):make course structure	26 minutes ago
lab02	feat(main):make course structure	26 minutes ago
lab03	feat(main):make course structure	26 minutes ago
lab04	feat(main):make course structure	26 minutes ago
lab05	feat(main):make course structure	26 minutes ago
lab06	feat(main):make course structure	26 minutes ago
lab07	feat(main):make course structure	26 minutes ago
lab08	feat(main):make course structure	26 minutes ago
lab09	feat(main):make course structure	26 minutes ago
lab10	feat(main):make course structure	26 minutes ago
lab11	feat(main):make course structure	26 minutes ago




Перешел в папку labs03, далее в папку report и загрузил туда первую лабораторную работу, аналогично загрузил вторую и третью.






 **YazgeldiOrazgeldiyev** / **study_2022-2023_arh-pc** Public
generated from [yamadharm/course-directory-student-template](#)

 Pin  Unwatch **1**  Fork **0**  Star **0**

 **Code**  Issues  Pull requests  Actions  Projects  Wiki  Security 

 master  **study_2022-2023_arh-pc** / **labs** / **lab03** / **report** /   

 **YazgeldiOrazgeldiyev** feat(main):make course structure  1 hour ago  History

..		
 bib	feat(main):make course structure	1 hour ago
 image	feat(main):make course structure	1 hour ago
 pandoc/csl	feat(main):make course structure	1 hour ago
 Makefile	feat(main):make course structure	1 hour ago
 report.md	feat(main):make course structure	1 hour ago

Вывод: изучил идеологию средств контроля версий, приобрел практические навыки по работе с системой git.