

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

**ОТЧЕТ
ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2**

дисциплина: *Архитектура компьютера*

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Группа: НБИ-01-25

МОСКВА

2025 г.

Цель работы

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


Ход работы

Сначала настраиваю Git на своем компьютере. Создаю пользователя в системе Git и указываю параметры — имя и email, чтобы мои действия были правильно подписаны.

```
iaatabaeva@VirtualBox:~$ git config --global user.name "iatabaeva"
iaatabaeva@VirtualBox:~$ git config --global user.email "1032251937@pfur.ru"
iaatabaeva@VirtualBox:~$ git config --global core.quotepath false
iaatabaeva@VirtualBox:~$ git config --global init.defaultBranch master
iaatabaeva@VirtualBox:~$ git config --global core.autocrlf input
iaatabaeva@VirtualBox:~$ git config --global core.safecrlf warn
iaatabaeva@VirtualBox:~$
```

Генерирую SSH-ключи, которые нужны для идентификации на GitHub. Сохраняю их на компьютере и добавляю публичный ключ в свой профиль на GitHub для установления связи.

```
iaatabaeva@VirtualBox:~$ ssh-keygen -C "iatabaeva 1032251937@pfur.ru"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/iaatabaeva/.ssh/id_ed25519):
Created directory '/home/iaatabaeva/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/iaatabaeva/.ssh/id_ed25519
Your public key has been saved in /home/iaatabaeva/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:xSvJdoldGkJeWpGls3XZ+gHziqwnZSl4SCK5ebgjVs0 iatabaeva 1032251937@pfur.ru
The key's randomart image is:
+---[ED25519 256]---+
|      . ++.      |
|    o +.. . o    |
|   . + + o B .   |
|o . .. 0 = B     |
| = oooo S. = o   |
|+ ..oEoo+= o .   |
| o. . +o . .     |
|+.   ...         |
|o.   .o          |
+----[SHA256]-----+
iaatabaeva@VirtualBox:~$
```



iatabaeva (iatabaeva)
Your personal account

Go to your personal profile

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and licensing

Emails

Password and authentication


Sessions

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication keys



key
SHA256: xSvJdo1DGkJeWpGls3XZ+gHz1qwnZSL4SCK5ebgjVs0
Added on Oct 8, 2025
Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

Нахожу нужный репозиторий-шаблон и делаю из него копию для работы.

yamadharmayamadharmacourse-directory-student-template

Type to search

+⌵

🔄

🔗

📧

🌐

<>Code🕒Issues🔗Pull requests🔄Actions📁Projects🛡️Security📈Insights

course-directory-student-templatePublic template

👁️Watch3⌵

🍴Fork35⌵

★Star7⌵

Use this template⌵


👤master⌵👤2 Branches🏷️20 Tags

🔍Go to file⌵

Add file⌵

<>Code⌵

About



yamadharmamerge branch 'release/1.4.3'

cf8b286 · last week🕒120 Commits

📁template

chore(main): update submodules

last week

📄.gitattributes

Initial commit

3 years ago

📄.gitignore

feat(gitignore): add ignore files for net-os-admin

4 months ago

📄.gitmodules

chore(main): add conventional changelog support

3 years ago

📄CHANGELOG.md

chore(main): update changelog

last week

Course Catalog Template for Students

📖Readme

📄CC-BY-4.0 license

📈Activity

★7 stars

👁️3 watching

🍴35 forks

Report repository

Create a new repository

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).
Required fields are marked with an asterisk (*).

Start with a template

Templates pre-configure your repository with files.



yamadharm/course-directory-student-template ▾

Include all branches

If enabled, all branches from the template repository will be included.

Off



1 General

Owner *



iatabaeva ▾

Repository name *

/ study_2025_2026_arch-pc

✔ study_2025_2026_arch-pc is available.

Great repository names are short and memorable. How about [miniature-bassoon](#)?

Description

0 / 350 characters

Создаю рабочую директорию на своем компьютере для хранения файлов проекта. Клонировать репозиторий с GitHub в эту директорию, чтобы работать с файлами локально.

```
iaatabaeva@VirtualBox:~$ mkdir -p ~/work/study/2025-2026/"Архитектура компьютера"
iaatabaeva@VirtualBox:~$ cd ~/work/study/2025-2026/"Архитектура компьютера"
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера$ git clone --recursive git@github.com:iatabaeva/study_2025_2026_arch-pc.git
Cloning into 'study_2025_2026_arch-pc'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
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), 23.53 KiB | 3.92 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharm/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharm/academic-laboratory-report-template.git) registered for path 'template/report'
```

```

iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера$
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера$ cd ~/work/study/2025-2026/"Архитектура компьютера"/study_2025_2026_arch-pc
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ echo arch-pc > COURSE
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ make prepare
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ ls
COURSE LICENSE package.json presentation README.git-flow.md template
labs Makefile prepare README.en.md README.md
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$


```

После подготовки структуры добавляю изменения в локальный репозиторий и отправляю их на GitHub командой push.

```

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
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git push
Enumerating objects: 74, done.
Counting objects: 100% (74/74), done.
Delta compression using up to 4 threads
Compressing objects: 100% (58/58), done.
Writing objects: 100% (71/71), 700.96 KiB | 4.97 MiB/s, done.
Total 71 (delta 25), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (25/25), completed with 1 local object.
To github.com:iaatabaeva/study_2025_2026_arch-pc.git
0c5b2a9..d445a6a master -> master
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$

```


study_2025_2026_arch-pc
Public
generated from [yamadharma/course-directory-student-template](#)
Pin
Watch 0
Fork 0
Star 0

master
1 Branch
0 Tags

Add file
Code

File	Commit	Time
labs	feat(main): make course structure	now
presentation	feat(main): make course structure	now
template	Initial commit	1 minute ago
.gitattributes	Initial commit	1 minute ago
.gitignore	Initial commit	1 minute ago
.gitmodules	Initial commit	1 minute ago
COURSE	feat(main): make course structure	now
LICENSE	Initial commit	1 minute ago

About

No description, website, or topics provided.

Readme

CC-BY-4.0 license

Activity

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Загружаю отчёты по выполненным работам в соответствующие папки на GitHub, обновляя репозиторий по мере необходимости.

```
iaatabaeva@VirtualBox: ~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$  
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git add .  
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git commit -am 'feat(main): add lab01'  
[master e9dc6c9] feat(main): add lab01  
2 files changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 labs/lab01/report/Атабаева_отчет_лаб_1.docx  
create mode 100644 labs/lab01/report/Атабаева_отчет_лаб_1.pdf  
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git push  
Enumerating objects: 11, done.  
Counting objects: 100% (11/11), done.  
Delta compression using up to 4 threads  
Compressing objects: 100% (7/7), done.  
Writing objects: 100% (7/7), 1.39 MiB | 9.45 MiB/s, done.  
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0  
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.  
To github.com:iaatabaeva/study_2025_2026_arch-pc.git  
d445a6a..e9dc6c9 master -> master  
iaatabaeva@VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$
```

Вывод:

В ходе выполнения работы изучили работу с GitHub.