

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-03-24

МОСКВА

2024 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.

```
zsharofiddinov@VirtualBox:~$  
zsharofiddinov@VirtualBox:~$ git config --global user.name "ZiynatulloSharofiddinov"  
zsharofiddinov@VirtualBox:~$ git config --global user.email "1032244602@pfur.ru"  
  
zsharofiddinov@VirtualBox:~$ git config --global core.quotepath false  
zsharofiddinov@VirtualBox:~$ git config --global init.defaultBranch master  
zsharofiddinov@VirtualBox:~$ git config --global core.autocrlf input  
zsharofiddinov@VirtualBox:~$ git config --global core.safecrlf warn  
zsharofiddinov@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.

```
zsharofiddinov@VirtualBox:~$  
zsharofiddinov@VirtualBox:~$ ssh-keygen -C "ZiynatulloSharofiddinov 1032244602@pfur.ru"  
Generating public/private rsa key pair.  
  
Enter file in which to save the key (/home/zsharofiddinov/.ssh/id_rsa): Created directory '/home/zsharofiddinov/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/zsharofiddinov/.ssh/id_rsa  
Your public key has been saved in /home/zsharofiddinov/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:514nGvkTpY0g21/b2afeRIf6ko3YdutG10ZHWK9x0gw ZiynatulloSharofiddinov 1032244602@pfur.ru  
The key's randomart image is:  
+----[RSA 3072]-----+  
|           o. |  
|          . o |  
|         E ..o |  
|        . . o.*o |  
|       S+.. =*. = |  
|      .o..+. +o= |  
|      +++B.=+ |  
|     ..=O+=++ |  
|     o..B*oo |  
+----[SHA256]-----+  
zsharofiddinov@VirtualBox:~$
```



ZiynatulloSharofiddinov (ZiynatulloSharofiddinov)
Your personal account

[Go to your personal profile](#)

- Public profile
- Account
- Appearance
- Accessibility
- Notifications

Access

- Billing and plans
- Emails
- Password and authentication
- Sessions
- SSH and GPG keys**
- Organizations
- Enterprises
- Moderation

Code, planning, and automation

Add new SSH Key

Title

Key type

Authentication Key

Key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGDLC936noCHf7JLPhIVMKrllDYA8RKGp++pEhoKkDUCVH+uY3u6S03v0+DIVmh95RAe/SxZv+/rAj0gM9D
AbgWx/Q/mfOIWzKnnVfnasVqA9w8l3korvFQ4lnqWTR6rqJkMkPgdkHB0CQZ/GeRdxDmmxYOnUGZtJNzzQewje/aUE3NSHACANVQgIfWmJGj4rxJ
Rlc9x6BbR8NMzb6lbgAHBGPwXwTFI3GWB/0TfiwmvFRAF30bNFytKUDR2oAtS2Q87F8ubexXh2rowZsWGUXDumb+7kShfPG1tSKZ0/RZElm8qsih9e
G9kCsWmJO+3gz8nakmlIT/ab1XES0moth7k24JLhZDcgNp4RT8KyOA1tEs4Ou50AlhXy6XmBdj5H6tebGwEUcC0jWgUX7f8zGauNdmC19ccT2xCf210u
ftTUcbrZcDlNHmutcsui510BjX0d9uDFXqyVnhcOG6EuCNP80RXC23Uy4HWLbgTGmNGtw9PGhBW6xgGL1MK9+0= ZiynatulloSharofiddinov
1032244602@pfur.ru
```

Add SSH key

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

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Required fields are marked with an asterisk (*).

Repository template

yamadharm/course-directory-student-template

Start your repository with a template repository's contents.

☐ Include all branches

Copy all branches from yamadharm/course-directory-student-template and not just the default branch.

Owner *

ZiynatulloSharofiddinov

Repository name *

/ arch-pc

arch-pc is available.

Great repository names are short and memorable. Need inspiration? How about [upgraded-octo-couscous](#) ?

Description (optional)

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

```
zsharofiddinov@VirtualBox:~$ mkdir -p ~/work/study/2024-2025/"Архитектура компьютера"
zsharofiddinov@VirtualBox:~$ cd ~/work/study/2024-2025/"Архитектура компьютера"
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера$ git clone --recursive
git@github.com:ZiynatulloSharofiddinov/arch-pc.git
Cloning into 'arch-pc'...
```

```
The authenticity of host 'github.com (140.82.121.3)' can't be established.
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWeIOtrVc98/R1BUFWu3/LiyKgUfQM.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'github.com,140.82.121.3' (ECDSA) to the list of known hosts.
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 33 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (33/33), 18.82 KiB | 3.14 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/zsharofiddinov/work/study/2024-2025/Архитектура компьютера/arch-pc/template/presentation'...
remote: Enumerating objects: 111, done.
remote: Counting objects: 100% (111/111), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 111 (delta 42), reused 100 (delta 31), pack-reused 0 (from 0)
Receiving objects: 100% (111/111), 102.17 KiB | 1015.00 KiB/s, done.
Resolving deltas: 100% (42/42), done.
```


```
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера$
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера$ cd ~/work/study/2024-2025/"Архитектура компьютера"/arch-pc
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ rm package.json
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make
Usage:
  make <target>

Targets:
  list           List of courses
  prepare        Generate directories structure
  submodule      Update submodules

zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make prepare
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ ls
CHANGELOG.md  COURSE  LICENSE  prepare  README.en.md  README.md
config        labs    Makefile  presentation  README.git-flow.md  template
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

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

```
create mode 100644 presentation/report/image/placeimg_800_600_tech.jpg
create mode 100644 presentation/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 presentation/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_fignos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_secnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/core.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/main.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 presentation/report/report.md
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git push
Warning: Permanently added the ECDSA host key for IP address '140.82.121.4' to the list of known hosts.
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 6 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (35/35), 341.28 KiB | 2.40 MiB/s, done.
Total 35 (delta 4), reused 0 (delta 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:ZiynatulloSharofiddinov/arch-pc.git
 6459999..4ec99d5 master -> master
zsharofiddinov@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

 **arch-pc** Public


generated from [yamadharma/course-directory-student-template](#)

🔗 master 1 Branch 0 Tags

🔍 Go to file

Add file

🔗 Code

 ZiynatulloSharofiddinov feat(main): make course structure	4ec99d5 · now	🕒 2 Commits
📁 config	Initial commit	1 minute ago
📁 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
📄 CHANGELOG.md	Initial commit	1 minute ago

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

Вывод:

В ходе выполнения работы изучили работу с GitHub.