

Лабораторная работа №1

Математические и имитационное моделирование

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ГРУППА: НФИБД-02-23

Цель

Приобрести практические навыки работы с системой управления версиями Git.

Задание №1



A screenshot of a terminal window titled "MINGW64:/c/Users/nikit". The terminal shows the user's name "nikit@nvsakhno" and the title "MINGW64 ~". The command "\$ git --version" is entered, and the output "git version 2.53.0.windows.1" is displayed.

```
MINGW64:/c/Users/nikit
nikit@nvsakhno MINGW64 ~
$ git --version
git version 2.53.0.windows.1
```

```
nikit@nvsakhno MINGW64 ~
$ git config --global user.name "Сахно Никита"

nikit@nvsakhno MINGW64 ~
$ git config --global user.email "Nikita.Sakhno19@yandex.ru"

nikit@nvsakhno MINGW64 ~
$ git config --global core.quotepath false

nikit@nvsakhno MINGW64 ~
$ git config --global core.autocrlf true

nikit@nvsakhno MINGW64 ~
$ git config --global core.safecrlf warn

nikit@nvsakhno MINGW64 ~
$ git config --global init.defaultBranch master

nikit@nvsakhno MINGW64 ~
$ git config --global --list
user.name=Сахно Никита
user.email=Nikita.Sakhno19@yandex.ru
core.quotepath=false
core.autocrlf=true
core.safecrlf=warn
init.defaultbranch=master
```

Задание №2

Задание №2

```
nikit@nvsakhno MINGW64 ~
$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface] [-b bind_address]
           [-c cipher_spec] [-D [bind_address:]port] [-E log_file]
           [-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file]
           [-J destination] [-L address] [-l login_name] [-m mac_spec]
           [-o ctl_cmd] [-o option] [-P tag] [-p port] [-R address]
           [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
           destination [command [argument ...]]
ssh [-Q query_option]

nikit@nvsakhno MINGW64 ~
$ ssh-keygen -t ed25519 -C "Nikita.Sakhno19@yandex.ru"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/nikit/.ssh/id_ed25519):
Created directory '/c/Users/nikit/.ssh'.
Enter passphrase for "/c/Users/nikit/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/nikit/.ssh/id_ed25519
Your public key has been saved in /c/Users/nikit/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:PQYiuEC2j2uNGfvMwbjOGoNUZPgaUuJFg1sDIUdy69U Nikita.Sakhno19@yandex.ru
The key's randomart image is:
+--[ED25519 256]--+
|o*X=
|=*=*..
|o+B.+ E .
|.*++ . . o
|.=. S +
|o.B . . .
|.0 o .
|. B +
| .oo
+---[SHA256]-----+
nikit@nvsakhno MINGW64 ~
```

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

**nvsakhno_mathmod**

SHA256:PQYiuEC2j2uNGfvMWbjOGoNUZPgaUuJFg1sDIUdy69U

SSH

Added on Feb 20, 2026

Never used — Read/write

[Delete](#)

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

```
nikit@nvsakhno MINGW64 ~
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIDGrKZ2TGYB9uzMUifpx8d0w0R7kvdeiaenL/sr3CsAo Nikita.Sakhno19@yandex.ru

nikit@nvsakhno MINGW64 ~
$ ssh -T git@github.com
Hi NikitaSakhno1! You've successfully authenticated, but GitHub does not provide shell access.
```

```
nikit@nvsakhno MINGW64 ~
$ git clone git@github.com:yamadharma/course-directory-student-template.git
Cloning into 'course-directory-student-template'...
remote: Enumerating objects: 546, done.
remote: Counting objects: 100% (160/160), done.
remote: Compressing objects: 100% (82/82), done.
remote: Total 546 (delta 104), reused 131 (delta 78), pack-reused 386 (from 1)
Receiving objects: 100% (546/546), 177.29 KiB | 1.18 MiB/s, done.
Resolving deltas: 100% (222/222), done.

nikit@nvsakhno MINGW64 ~
```

```
nikit@nvsakhno MINGW64 ~
$ cd course-directory-student-template

nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ ls
CHANGELOG.md      CONTRIBUTING.md    LICENSE    README.en.md      README.md    package.json
CODE_OF_CONDUCT.md COURSE           Makefile   README.git-flow.md SECURITY.md  template/
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$
```

```
nikit@nvsakhno MINGW64 ~
$ echo simulation-modeling > COURSE
```

```
nikit@nvsakhno MINGW64 ~
$ cat COURSE
simulation-modeling
```

```
nikit@nvsakhno MINGW64 ~
$ |
```

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git add .
```

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git commit -m "feat(main): make course structure"
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
```

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$
```

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git push
ERROR: Permission to yamadharma/course-directory-student-template.git denied to NikitaSakhno1.
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git flow version
1.12.3 (AVH Edition)
```

Задание №2

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git flow init
```

Which branch should be used for bringing forth production releases?

- master

Branch name for production releases: [master]

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? [C:/Users/nikit/course-directory-student-template/.git/hooks]

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (develop)
$ git branch
* develop
  master
```

Задание №2


```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git push --all
ERROR: Permission to yamadharma/course-directory-student-template.git denied to
NikitaSakhno1.
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ git push --tags
ERROR: Permission to yamadharma/course-directory-student-template.git denied to
NikitaSakhno1.
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
nikit@nvsakhno MINGW64 ~/course-directory-student-template (master)
$ |
```

Вывод:

В процессе выполнения данной лабораторной работы я приобрел практические навыки работы с Git.