

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ

ПО ЛАБОРАТОРНОЙ РАБОТЕ №2 _____

дисциплина: *Операционные системы*

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Группа: НФИбд-02-20

МОСКВА

2021_г.

Цель работы: изучение идеологии и применения средств контроля версий.

Ход работы:

1. Создаю учетную запись на <https://github.com> (рисунок 1).

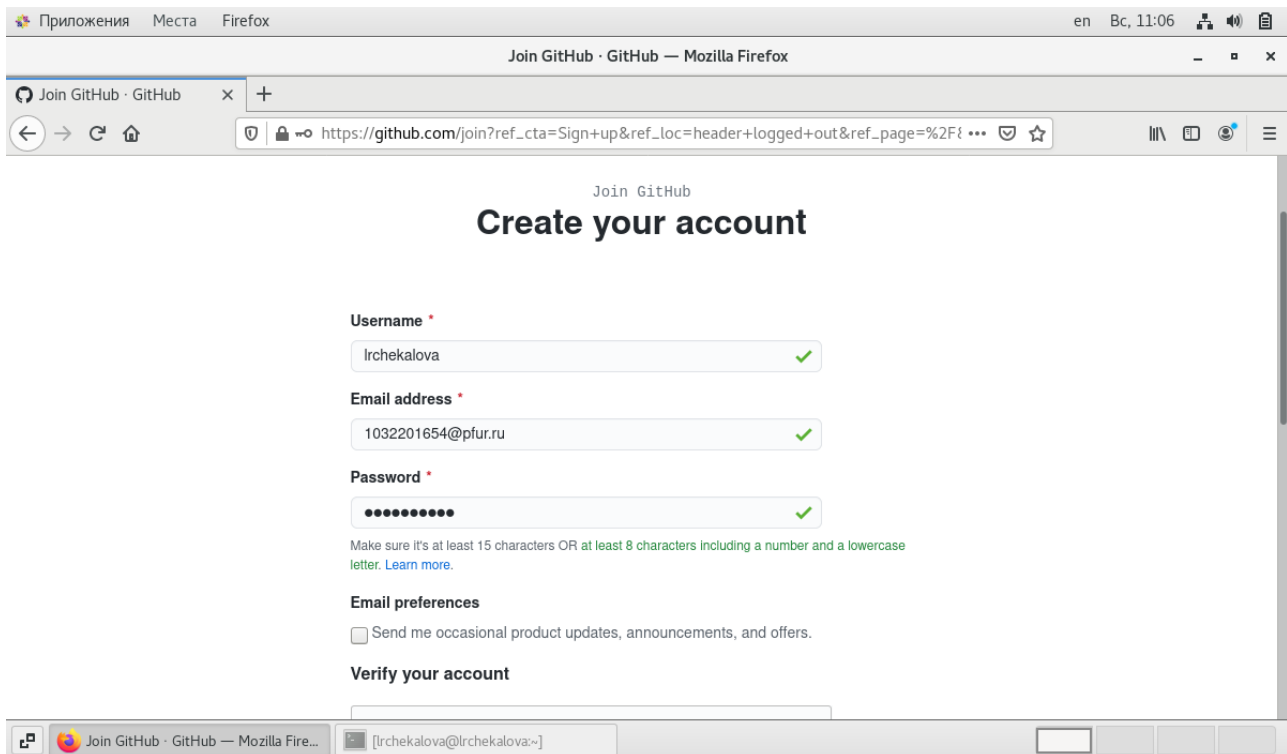


Рисунок 1. Регистрация на github.

2. Настраиваю систему контроля версий git, сгенерировав перед этим пару ключей (рисунки 2-3).

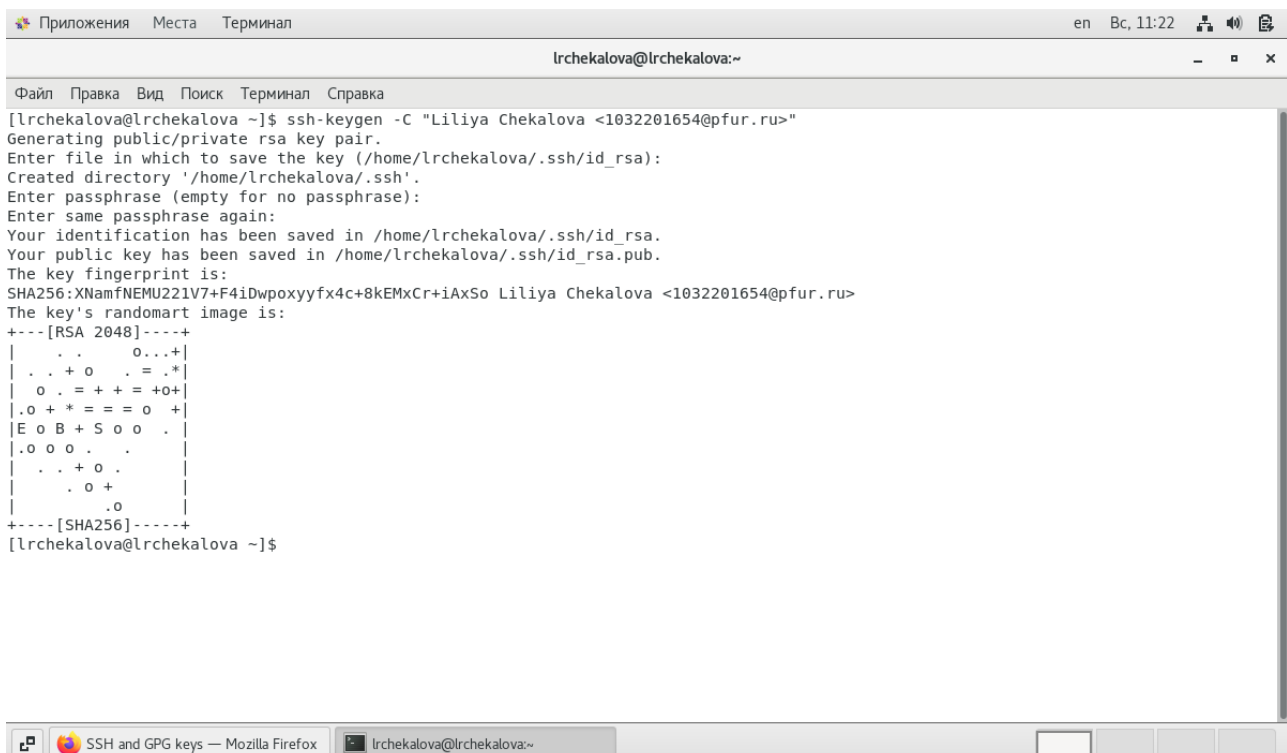


Рисунок 2. Генерирование ключей.

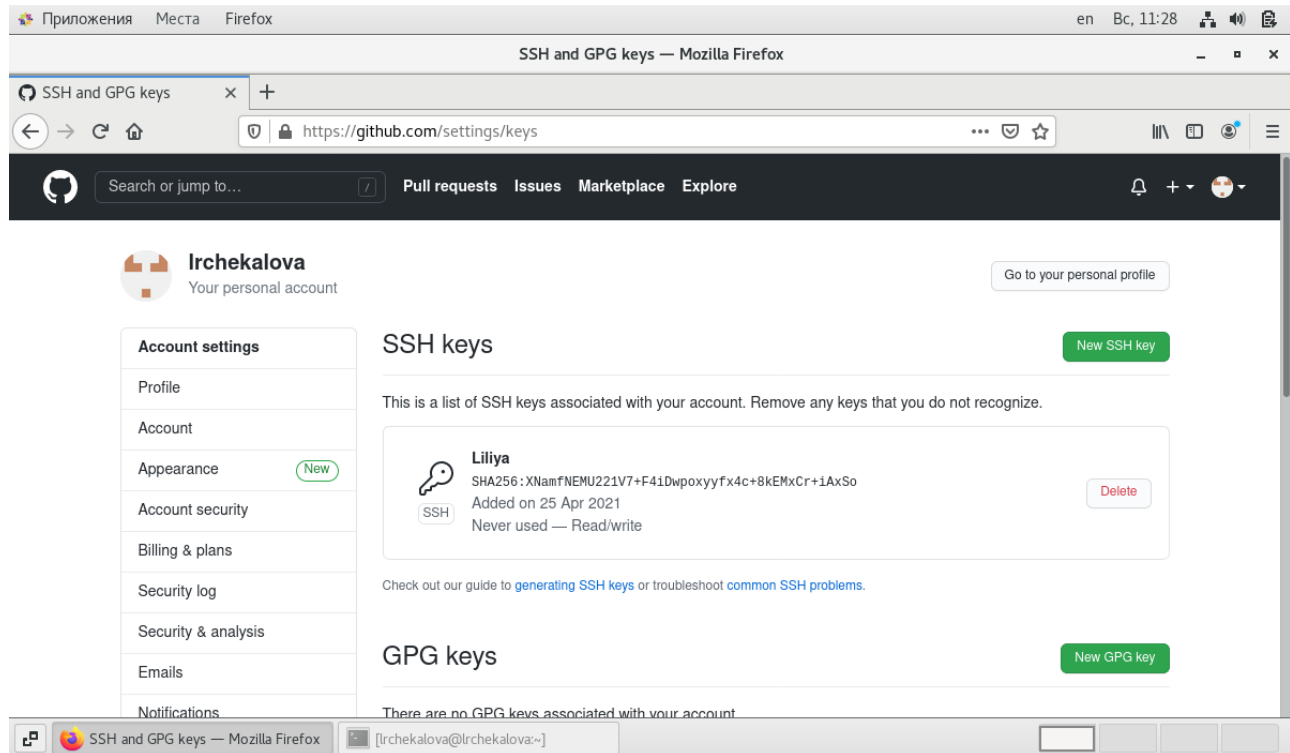


Рисунок 3. Настройка системы версий git.

3. Создаю структуру каталога лабораторных работ (рисунок 4).

```
[lrchekalova@lrchekalova ~]$ mkdir -p ~/work/2020-2021/Операционные_системы/laboratory/lab02/
```

Рисунок 4. Каталог лабораторных работ.

4. Создаю репозиторий на GitHub и делаю первый коммит (рисунки 5, 6.1, 6.2).

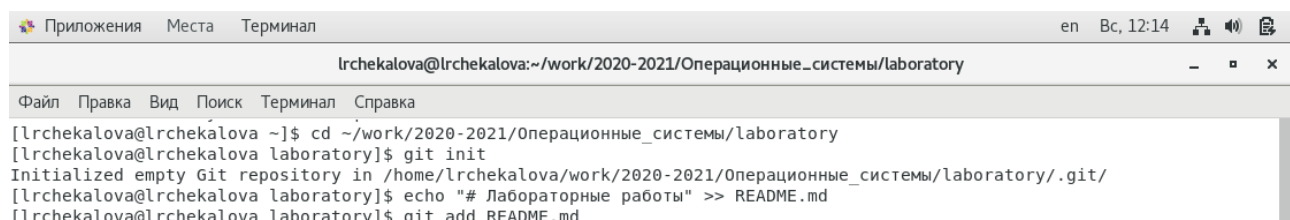


Рисунок 5. Создание репозитория.

```
[lrchekalova@lrchekalova laboratory]$ git commit -m "first commit"
[master (root-commit) 95b646a] first commit
Committer: lrchekalova <lrchekalova@lrchekalova.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:
```

```
git config --global user.name "Your Name"
git config --global user.email you@example.com
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
1 file changed, 1 insertion(+)
create mode 100644 README.md
```

Рисунок 6.1. Первый коммит.

```
[lrchekalova@lrchekalova laboratory]$ git remote add origin https://github.com/lrchekalova/os-intro.git
[lrchekalova@lrchekalova laboratory]$ git push -u origin master
Username for 'https://github.com': lrchekalova
Password for 'https://lrchekalova@github.com':
Counting objects: 3, done.
Writing objects: 100% (3/3), 246 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/lrchekalova/os-intro.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.
[lrchekalova@lrchekalova laboratory]$
```

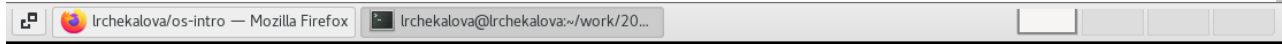


Рисунок 6.2. Первый коммит.

5. Произвожу первичную конфигурацию, добавляя файл лицензии, шаблоны игнорируемых файлов, новые файлы, выполняя коммит и отправляя на github (рисунки 7-10).

```
[lrchekalova@lrchekalova laboratory]$ wget https://creativecommons.org/licenses/by/4.0/legalcode.txt -O LICENSE
--2021-04-25 12:22:18-- https://creativecommons.org/licenses/by/4.0/legalcode.txt
Распознаётся creativecommons.org (creativecommons.org)... 172.67.34.140, 104.20.151.16, 104.20.150.16, ...
Подключение к creativecommons.org (creativecommons.org)[172.67.34.140]:443... соединение установлено.
HTTP-запрос отправлен. Ожидание ответа... 200 OK
Длина: нет данных [text/plain]
Сохранение в: «LICENSE»

[ <=> ] 18 657 ---K/s за 0,001s

2021-04-25 12:22:19 (16,5 MB/s) - «LICENSE» сохранён [18657]
```

```
[lrchekalova@lrchekalova laboratory]$ curl -L -s https://www.gitignore.io/api/list
1c,1c-bitrix,a-frame,actionsript,ada
adobe,advancedinstaller,adventuregamestudio,agda,al
alteraquartusii,altium,amplify,android,androidstudio
angular,anjuta,ansible,apachecordova,apachehadoop
appbuilder,appcelerator titanium,appcode,appcode+all,appcode+iml
appengine,aptanastudio,arcanist,archive,archives
archlinuxpackages,aspnetcore,assembler,ate,atmelstudio
```

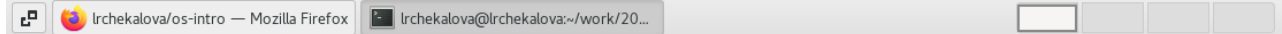


Рисунок 7. Лицензия и просмотр списка шаблонов игнорируемых файлов.

```
acoreinjection,xilinx,xilinxise,xilinxivadu,xll
xojo,xtext,y86,yarn,yeoman
yii,yii2,zendframework,zephir,zig
zsh,zukencr8000[lrchekalova@lrchekalova laboratory]$ curl -L -s https://www.gitignore.io/api/c >> .gitignore
[lrchekalova@lrchekalova laboratory]$ git add .
```

Рисунок 8. Скачивание шаблона игнорируемых файлов и добавление новых файлов.

```
[lrchekalova@lrchekalova laboratory]$ git commit -a
[master 099340a] "some changes"
Committer: lrchekalova <lrchekalova@lrchekalova.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:
```

```
git config --global user.name "Your Name"
git config --global user.email you@example.com
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
2 files changed, 455 insertions(+)
create mode 100644 .gitignore
create mode 100644 LICENSE
[lrchekalova@lrchekalova laboratory]$
```

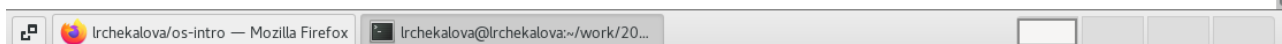


Рисунок 9. Выполнение коммита.

```
[lrchekalova@lrchekalova laboratory]$ git push
warning: push.default is unset; its implicit value is changing in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the current behavior after the default changes, use:

    git config --global push.default matching

To squelch this message and adopt the new behavior now, use:

    git config --global push.default simple

See 'git help config' and search for 'push.default' for further information.
(the 'simple' mode was introduced in Git 1.7.11. Use the similar mode
'current' instead of 'simple' if you sometimes use older versions of Git)

Username for 'https://github.com': lrchekalova
Password for 'https://lrchekalova@github.com':
Counting objects: 5, done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 6.43 KiB | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/lrchekalova/os-intro.git
   95b646a..099340a  master -> master
[lrchekalova@lrchekalova laboratory]$
```

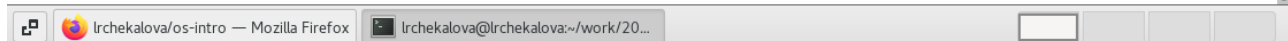


Рисунок 10. Отправка на github.

6. Инициализирую git-flow, создаю релиз, отправляю данные на github и создаю релиз на github (рисунки 11-14).

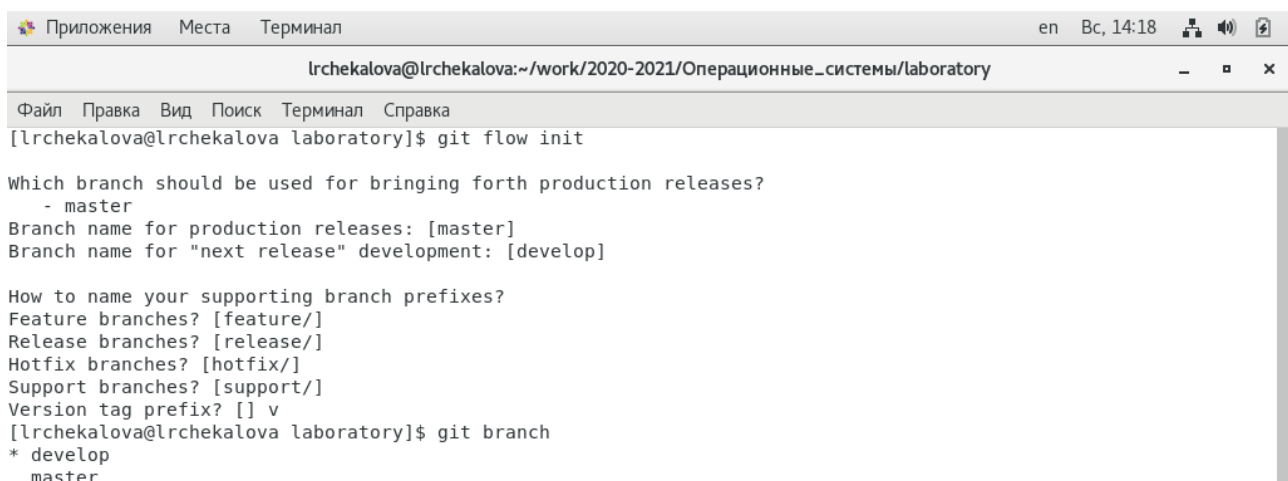


Рисунок 11. Инициализация git-flow.

```
[lrchekalova@lrchekalova laboratory]$ git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'

Summary of actions:
- A new branch 'release/1.0.0' was created, based on 'develop'
- You are now on branch 'release/1.0.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0.0'

[lrchekalova@lrchekalova laboratory]$ echo "1.0.0" >> VERSION
[lrchekalova@lrchekalova laboratory]$ git add .
```

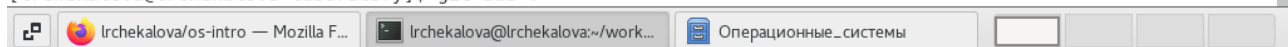


Рисунок 12.1. Создание релиза.

```
[lrchekalova@lrchekalova laboratory]$ git commit -am "chore(main): add version"
[release/1.0.0 cae0bfc] chore(main): add version
Committer: lrchekalova <lrchekalova@lrchekalova.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:
```

```
git config --global user.name "Your Name"
git config --global user.email you@example.com
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
2 files changed, 2 insertions(+)
create mode 100644 VERSION
create mode 100755 gitflow-installer.sh
[lrchekalova@lrchekalova laboratory]$ git flow release finish 1.0.0
Switched to branch 'master'
Merge made by the 'recursive' strategy.
VERSION | 1 +
gitflow-installer.sh | 1 +
2 files changed, 2 insertions(+)
create mode 100644 VERSION
create mode 100755 gitflow-installer.sh
```

Рисунок 12.2. Создание релиза.

```
[lrchekalova@lrchekalova laboratory]$ git push --all
Username for 'https://github.com': lrchekalova
Password for 'https://lrchekalova@github.com':
Counting objects: 6, done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 522 bytes | 0 bytes/s, done.
Total 5 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com:lrchekalova/os-intro.git
 099340a..b7329f9 master -> master
 * [new branch]      develop -> develop
 * [new branch]      release/1.0.0 -> release/1.0.0
[lrchekalova@lrchekalova laboratory]$ git push --tags
Username for 'https://github.com': lrchekalova
Password for 'https://lrchekalova@github.com':
Everything up-to-date
[lrchekalova@lrchekalova laboratory]$
```

Рисунок 13. Отправка на github.

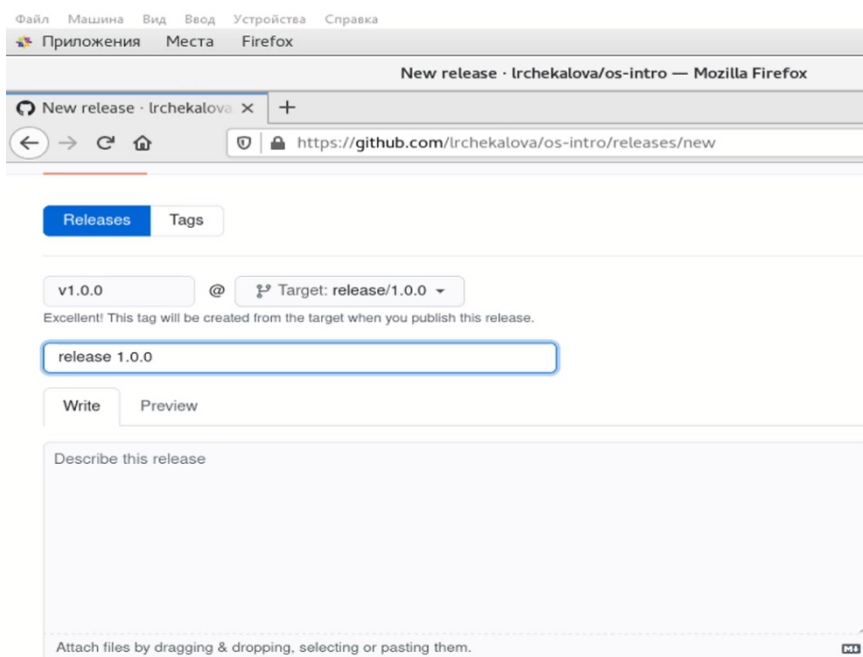


Рисунок 14. Создание релиза на github.

Вывод: в результате выполнения данной лабораторной работы мной было

исследовано применение средств контроля версий и их идеология.