# **Шаблон отчёта по лабораторной работе**2

Простейший вариант

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#### Содержание

1	Цель работы	5
2	2 Задание	6
3	3 Выводы <b>h</b>	20
Сп	Список литературы	21

## Список иллюстраций

#### Список таблиц

#### 1 Цель работы

Изучить идеологию и применение средств контроля версий. Освоить умения по работе c git.

#### 2 Задание

Последовательность работ по установке программного обеспечения -Сначала установили git

```
foot
[babdullakhi@babdullakhi ~]$ sudo dnf install git
[sudo] password for babdullakhi:
                                     37 kB/s | 20 kB 00:00
1.4 MB/s | 3.7 MB 00:02
Fedora 39 - x86_64 - Updates
Fedora 39 - x86_64 - Updates
google-chrome
                                          16 kB/s | 1.3 kB
                                                                 00:00
                                          9.7 kB/s | 3.6 kB
qooqle-chrome
                                                               00:00
Last metadata expiration check: 0:00:01 ago on Wed 28 Feb 2024 11:33:16
PM MSK.
Package git-2.43.2-1.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[babdullakhi@babdullakhi ~]$
```

-затем установил gh Fedora:

```
[babdullakhi@babdullakhi ~]$ sudo dnf install qh
Last metadata expiration check: 0:01:58 ago on Wed 28 Feb 2024 11:33:16
PM MSK.
Dependencies resolved.
Package Architecture Version
                                                  Size
                                     Repository
_______
Installing:
        x86_64 2.43.1-1.fc39
                                    updates
                                                9.1 M
Transaction Summary
Install 1 Package
Total download size: 9.1 M
Installed size: 46 M
Is this ok [y/N]: y
Downloading Packages:
gh-2.43.1-1.fc39.x86_64.rpm 5.6 MB/s | 9.1 MB 00:01
Total
                             3.4 MB/s | 9.1 MB
                                             00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
                                                  1/1
 Preparing
 Installing : gh-2.43.1-1.fc39.x86_64
                                                  1/1
                                                  1/1
 Running scriptlet: gh-2.43.1-1.fc39.x86_64
 Verifying : gh-2.43.1-1.fc39.x86_64
                                                  1/1
Installed:
 gh-2.43.1-1.fc39.x86_64
Complete!
[babdullakhi@babdullakhi ~]$
```

-Теперь базовая настройка git: давайте установим имя владельца репозитория.

```
Complete!
[babdullakhi@babdullakhi ~]$ git config --global user.name "Bahara12"
[babdullakhi@babdullakhi ~]$ []
```

-Теперь базовая настройка git: давайте установим email владельца репозито-

рия.

```
[babdullakhi@babdullakhi ~]$ git config --global user.email "baharaabdul
lahi4@gmail.com"
[babdullakhi@babdullakhi ~]$ []
```

-Hастройка utf-8 в выводе сообщения git -Настройте имя начальной ветки(

-Параметр autocrlf -параметр Safecrlf

```
[babdullakhi@babdullakhi ~]$ git config --global core.quotepath false [babdullakhi@babdullakhi ~]$ git config --global init.defaultBranch mast er [babdullakhi@babdullakhi ~]$ git config --global core.autocrlf input [babdullakhi@babdullakhi ~]$ git config --global core.safecrlf warn [babdullakhi@babdullakhi ~]$
```

-Создайте ключи ssh с использованием алгоритма rsa с размером ключа 4096

бит.

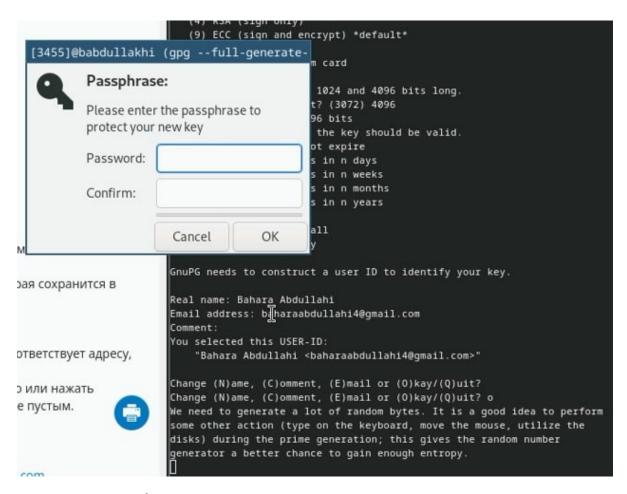
```
[babdullakhi@babdullakhi ~]$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/babdullakhi/.ssh/id_rsa):
Created directory '/home/babdullakhi/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/babdullakhi/.ssh/id_rsa
Your public key has been saved in /home/babdullakhi/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:RCMMvSv8ngFAt6tVye5p040cZiepLRx1AYdT4p+vmp4 babdullakhi@babdullak
hi
The key's randomart image is:
+---[RSA 4096]----+
    +B+ o
   .00+0 .
     .00+
   .0..*.5
  ...0+..
  ..00*0 .
  0+0**=
  oBE*B+
 ---[SHA256]----+
[babdullakhi@babdullakhi ~]$
```

-затем используйте алгоритм ed25519

```
[babdullakhi@babdullakhi ~]$ ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/babdullakhi/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/babdullakhi/.ssh/id_ed25519
Your public key has been saved in /home/babdullakhi/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:PD0QffUK8A8C+mojebH7s60DYRDjj3/7VDS+RhpHxYI babdullakhi@babdullak
hi
The key's randomart image is:
+--[ED25519 256]--+
    0. 0... 00 |
   ... . oEoo... |
    ... . ..B. .|
     000 0 = = .
    ..0.5 + = 0
     o.+ . B .
    o B.. o o
     + +0+ .
      ..=*0
 ----[SHA256]----+
[babdullakhi@babdullakhi ~]$
```

-Создание ключей рдр. Генерация ключа.

```
[babdullakhi@babdullakhi ~]$ gpg --full-generate-key
gpg (GnuPG) 2.4.3; Copyright (C) 2023 g10 Code GmbH
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
gpg: directory '/home/babdullakhi/.gnupg' created
Please select what kind of key you want:
  (1) RSA and RSA
  (2) DSA and Elgamal
  (3) DSA (sign only)
  (4) RSA (sign only)
  (9) ECC (sign and encrypt) *default*
 (10) ECC (sign only)
 (14) Existing key from card
Your selection? 1
RSA keys may be between 1024 and 4096 bits long.
What keysize do you want? (3072) 4096
Requested keysize is 4096 bits
Please specify how long the key should be valid.
        0 = key does not expire
     <n> = key expires in n days
     <n>w = key expires in n weeks
     <n>m = key expires in n months
     <n>y = key expires in n years
Key is valid for? (0) 0
Key does not expire at all
Is this correct? (y/N) y
GnuPG needs to construct a user ID to identify your key.
Real name: Bahara Abdullahi
Email address: baharaabdullahi4@gmail.com
Comment:
You selected this USER-ID:
    "Bahara Abdullahi <baharaabdullahi4@gmail.com>"
Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit?
Change (N)ame, (C)omment, (E)mail or (O)k y/(Q)uit?
```



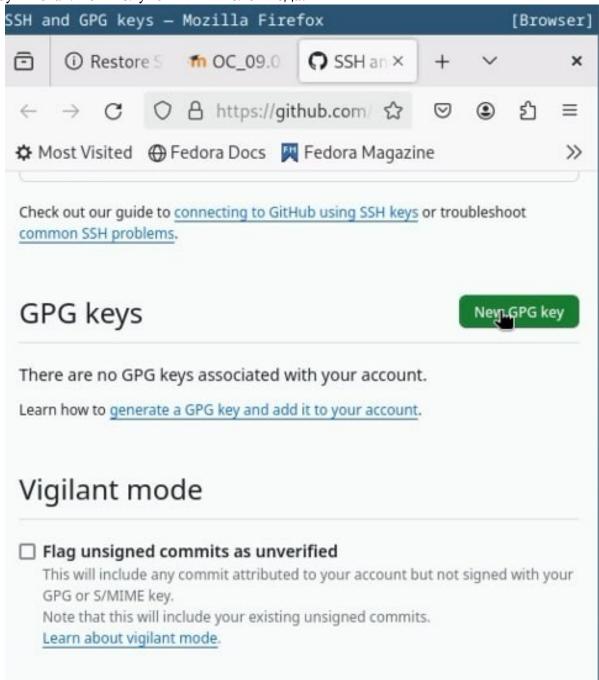
- -Настройка Githup: я создала GitHupit в прошлом семестре.
- -Добавьте ключи PGP в GitHup, затем покажите нам список ключей и скопируйте отпечаток закрытого ключа:

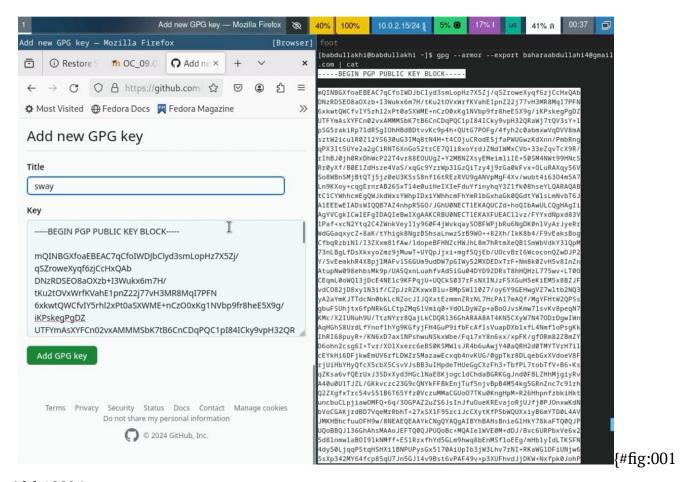
```
[babdullakhi@babdullakhi ~]$ gpg --list-secret-keys --keyid-format LONG gpg: checking the trustdb gpg: marginals needed: 3 completes needed: 1 trust model: pgp gpg: depth: 0 valid: 1 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 1u [keyboxd] ------sec rsa4096/54D0D1024F510A01 2024-02-28 [SC] 01EC06789E1A51E463BF246854D0D1024F510A01 uid [ultimate] Bahara Abdullahi <baharaabdullahi4@gmail.com> ssb rsa4096/F68013A61E3AE2E8 2024-02-28 [E] [babdullakhi@babdullakhi ~]$ [
```

-Скопируйте сгенерированный ключ PGP в буфер обмена:

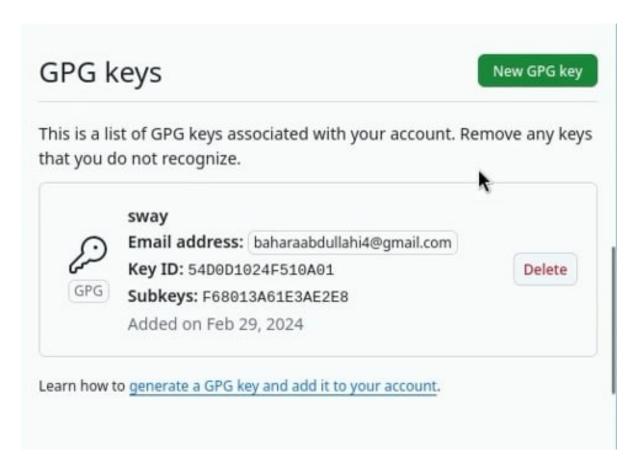
```
[babdullakhi@babdullakhi ~]$ gpg --armor --export baharaabdullahi4@gmail
.com | xclip -sel clip
[babdullakhi@babdullakhi ~]$ | | | | |
```

-Заходим на GitHup(http://githup.com/setting/key), нажимаем кнопку New GPG key и вставляем полученный в поле ввода.





width100%}

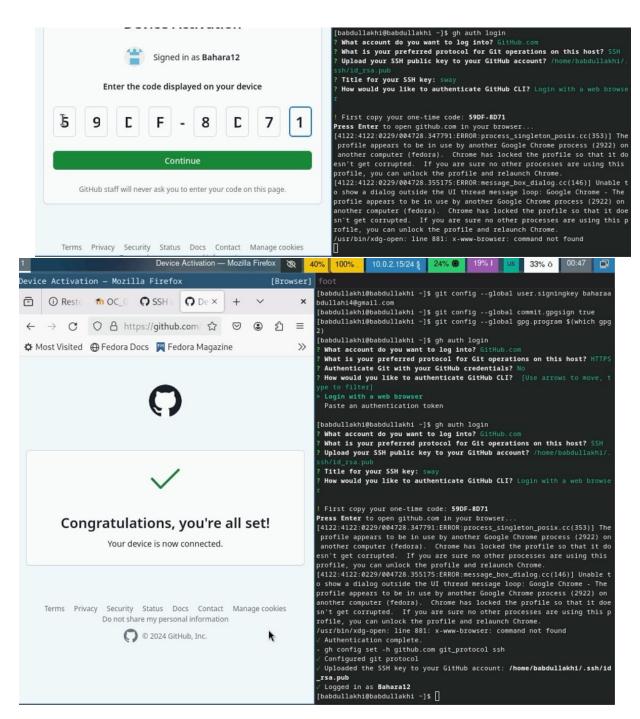


-Настройка автоматического подписания коммитов git, веденный адрес элек-

тронной почты, скажите Git использовать его при подписании коммитов:

```
[babdullakhi@babdullakhi ~]$ git config --global user.signingkey baharaa
bdullahi4@gmail.com
[babdullakhi@babdullakhi ~]$ git config --global commit.gpgsign true
[babdullakhi@babdullakhi ~]$ git config --global gpg.program $(which gpg
2)
[babdullakhi@babdullakhi ~]$ []
```

-Настройка gh Сначала необходимо войти в систему.



Шаблон для рабочего пространства -Необходимо создать шаблон рабочего пространства (см. Рабочее пространство для лабораторной работы).

-Например, для 2022–2023 учебного года и предмета «Операционные системы» (код предмета os-intro) создание репозитория примет следующий вид:

```
[babdullakhi@babdullakhi ~]$ mkdir -p ~/work/study/2023-2024/"Операционные системы"
[babdullakhi@babdullakhi ~]$ cd ~/work/study/2023-2024/"Операционные системы"
[babdullakhi@babdullakhi Операционные системы]$ gh repo create study_202
2-2023_os-intro --template=yamadharma/course-directory-student-template
--public

✓ Created repository Bahara12/study_2022-2023_os-intro on GitHub
https://github.com/Bahara12/study_2022-2023_os-intro
[babdullakhi@babdullakhi Oперационные системы]$

□ ① Restore$ ↑ OC_09.0 ○ Bahara × + × × / Title for your SSH key: SNAY

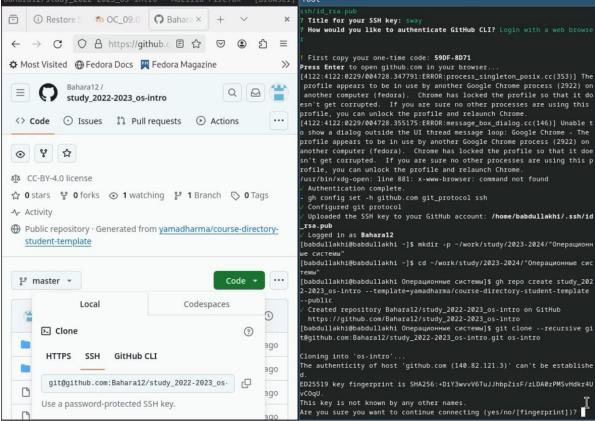
→ ○ ○ △ https://github.c □ ☆ ○ ④ ♪

→ Most Visited ⊕ Fedora Docs ○ Fedora Magazine

→ Most Visited ⊕ Fedora Docs ○ Fedora Magazine

→ If isst copy your one-time code: $90F-8071

Press Enter to open github.com in your browser...
[4122:4122:0229/004728.347791:ERROR:process_singleton_posix.cc(353)] The
```



• Настройка каталога курса. Перейдите в каталог курса:

```
[babdullakhi@babdullakhi Операционные системы]$ cd ~/work/study/2023-202
4/"Операционные системы"/os-intro
[babdullakhi@babdullakhi os-intro]$ []
```

• Удалите ненужные файлы и создайте необходимые каталоги:

```
[babdullakhi@babdullakhi Операционные системы]$ cd ~/work/study/2023-202
 4/"Операционные системы"/os-intro
 [babdullakhi@babdullakhi os-intro]$ rm package.json
 [babdullakhi@babdullakhi os-intro]$ echo os-intro > COURSE
 [babdullakhi@babdullakhi os-intro]$ make
 Usage:
   make <target>
 Targets:
   list
                                   List of courses
                                   Generate directories structure
                                   Update submules
 [babdullakhi@babdullakhi os-intro]$
 [babdullakhi@babdullakhi os-intro]$ make
 Usage:
   make <target>
 Targets:
                                    List of courses
  list
                                    Generate directories structure
                                    Update submules
 [babdullakhi@babdullakhi os-intro]$ Makes prepare
 bash: Makes: command not found
 [babdullakhi@babdullakhi os-intro]$ makea prepare
 bash: makea: command not found
 [babdullakhi@babdullakhi os-intro]$ make prepare
 [babdullakhi@babdullakhi os-intro]$
 -Загрузить файлы на сервер.
  [babdullakhi@babdullakhi os-intro]$ git add .
   [babdullakhi@babdullakhi os-intro]$
[babdullakhi@babdullakhi os-intro]$ git_commit -am 'feat(main): make cou
rse structure'
```

```
egnos.py
create mode 100755 project personal/stage5/report/pandoc/filters/pandoc
create mode 100755 project-personal/stage5/report/pandoc/filters/pandoc
secnos.py
create mode 100755 project-personal/stage5/report/pandoc/filters/pandoc
tablenos.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandoc
kncs/__init__.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandoc
kncs/core.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandoc
knos/main.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandoc
kncs/pandocattributes.pv
create mode 100644 project-personal/stage5/report/report.md
create mode 100644 project-personal/stageG/presentation/Makefile
create mode 100644 project-personal/stage6/presentation/image/kulyabov.
create mode 100644 project-personal/stage6/presentation/presentation.md
create mode 100644 project-personal/stage6/report/Makefile
create mode 100644 project-personal/stage6/report/bib/cite.bib
create mode 100644 project-personal/stage6/report/image/placeimg 800 60
_tech.jpg
create mode 100644 project-personal/stage6/report/pandoc/csl/gost-r-7-0
-5-2008-numeric.csl
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc
egnos.py
create mode 100755 project personal/stage6/report/pandoc/filters/pandoc
fignos.py
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc
secnos.py
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc
tablenos.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandoc
kncs/__init__.py
create mode 100644 project-personal/stagef/report/pandoc/filters/pandoc
kncs/core.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandoc
kncs/main.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandoc
kncs/pandocattributes.py
create mode 100644 project-personal/stage6/report/report.md
babdullakhi@babdullakhi os-intro]$
```

```
[babdullakhi@babdullakhi os-intro]$ git push
Enumerating objects: 40, done.
Counting objects: 100% (40/40), done.
Delta compression using up to 4 threads
Compressing objects: 100% (30/30), done.
Writing objects: 100% (38/38), 342.11 KiB | 2.21 MiB/s, done.
Total 38 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:Bahara12/study_2022-2023_os-intro.git
    06f4a01..1638336 master -> master
[babdullakhi@babdullakhi os-intro]$ [
```

### 3 Выводыһ

Здесь кратко описываются итоги проделанной работы.

# Список литературы