

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

презентация по лабораторной работе № 2

дисциплина: Операционные системы

Студент группы НПИбд-01-21

Студенческий билет №

1032205621

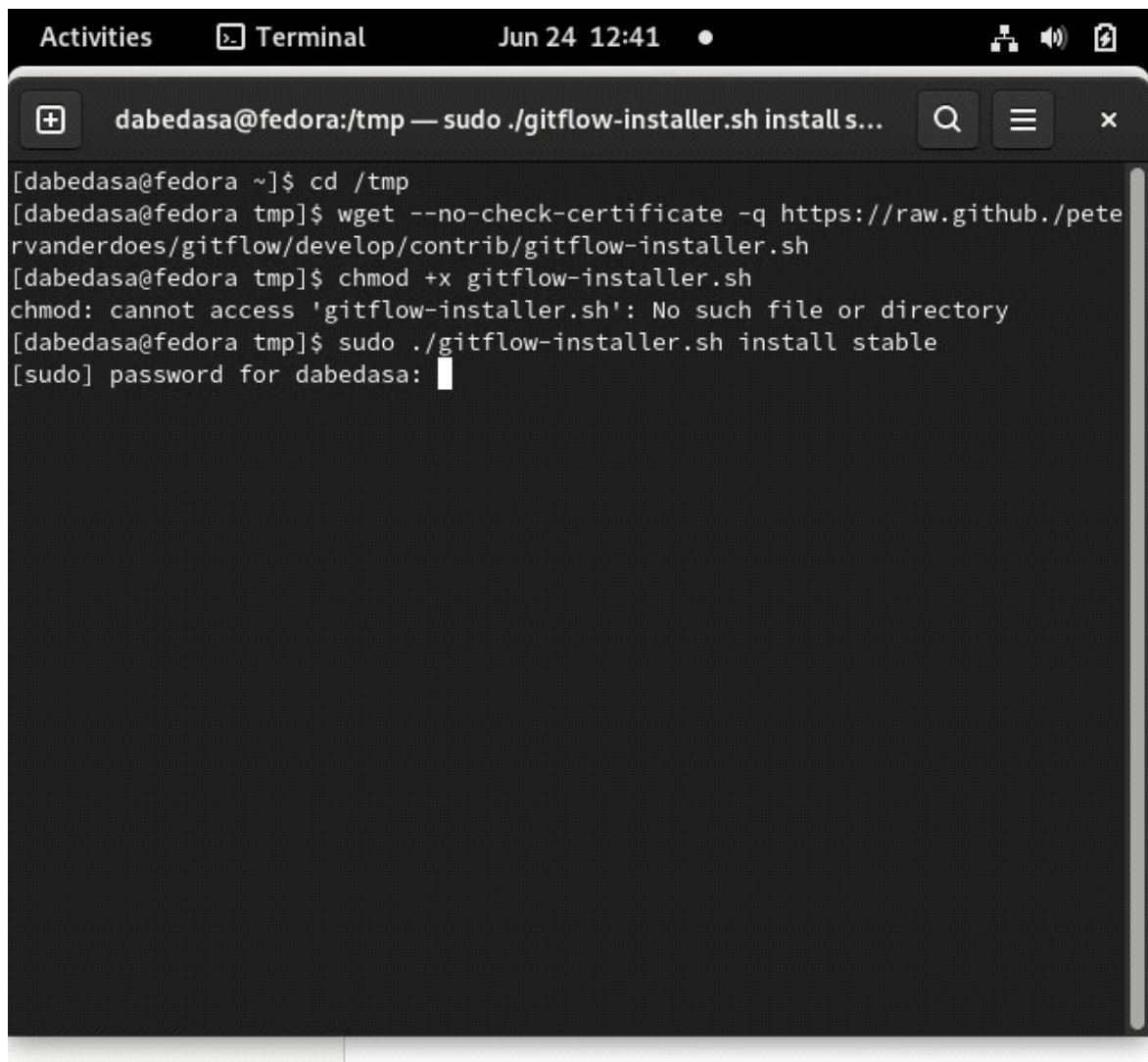
Фамилия Имя Отчество ; Дессие Абди Бедаса

Цели работы

Изучить идеологию и применение средств контроля версий, а также освоить умения по работе с git.

Выполнение работы

- Установка git-flow

A terminal window titled 'Terminal' with a timestamp of 'Jun 24 12:41'. The window shows a user named 'dabedasa' at a 'fedora' machine in the '/tmp' directory. The user runs a series of commands to manually install git-flow: they first change the directory to '/tmp', then use 'wget' to download the installer script from a GitHub raw file. After making the script executable with 'chmod +x', they attempt to run the installer with 'sudo ./gitflow-installer.sh install stable'. The terminal shows an error message 'chmod: cannot access 'gitflow-installer.sh': No such file or directory' before the user runs the sudo command. The prompt then changes to '[sudo] password for dabedasa:' with a cursor waiting for input.

```
dabedasa@fedora: /tmp — sudo ./gitflow-installer.sh install s...
[dabedasa@fedora ~]$ cd /tmp
[dabedasa@fedora tmp]$ wget --no-check-certificate -q https://raw.githubusercontent.com/petervanderdoes/gitflow/develop/contrib/gitflow-installer.sh
[dabedasa@fedora tmp]$ chmod +x gitflow-installer.sh
chmod: cannot access 'gitflow-installer.sh': No such file or directory
[dabedasa@fedora tmp]$ sudo ./gitflow-installer.sh install stable
[sudo] password for dabedasa: 
```

Рис 1. Установка в ручную git-flow

- Установка gh

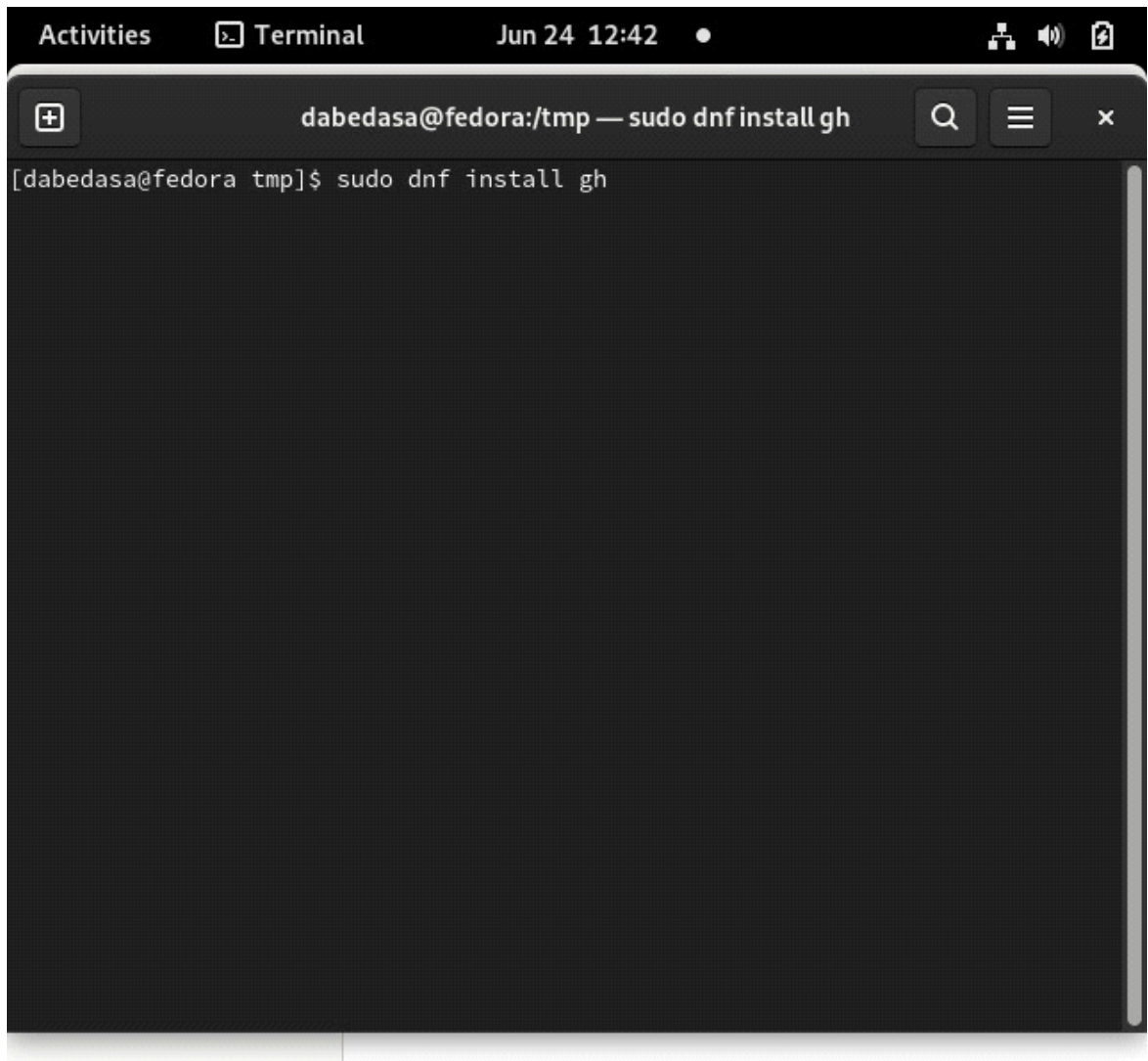


Рис 2. Устанавливаем gh

- Базовая настройка git

```
git config --global user.name "Name Surname"
```

```
git config --global user.email "work@mail"
```

```
git config --global core.quotepath false
```

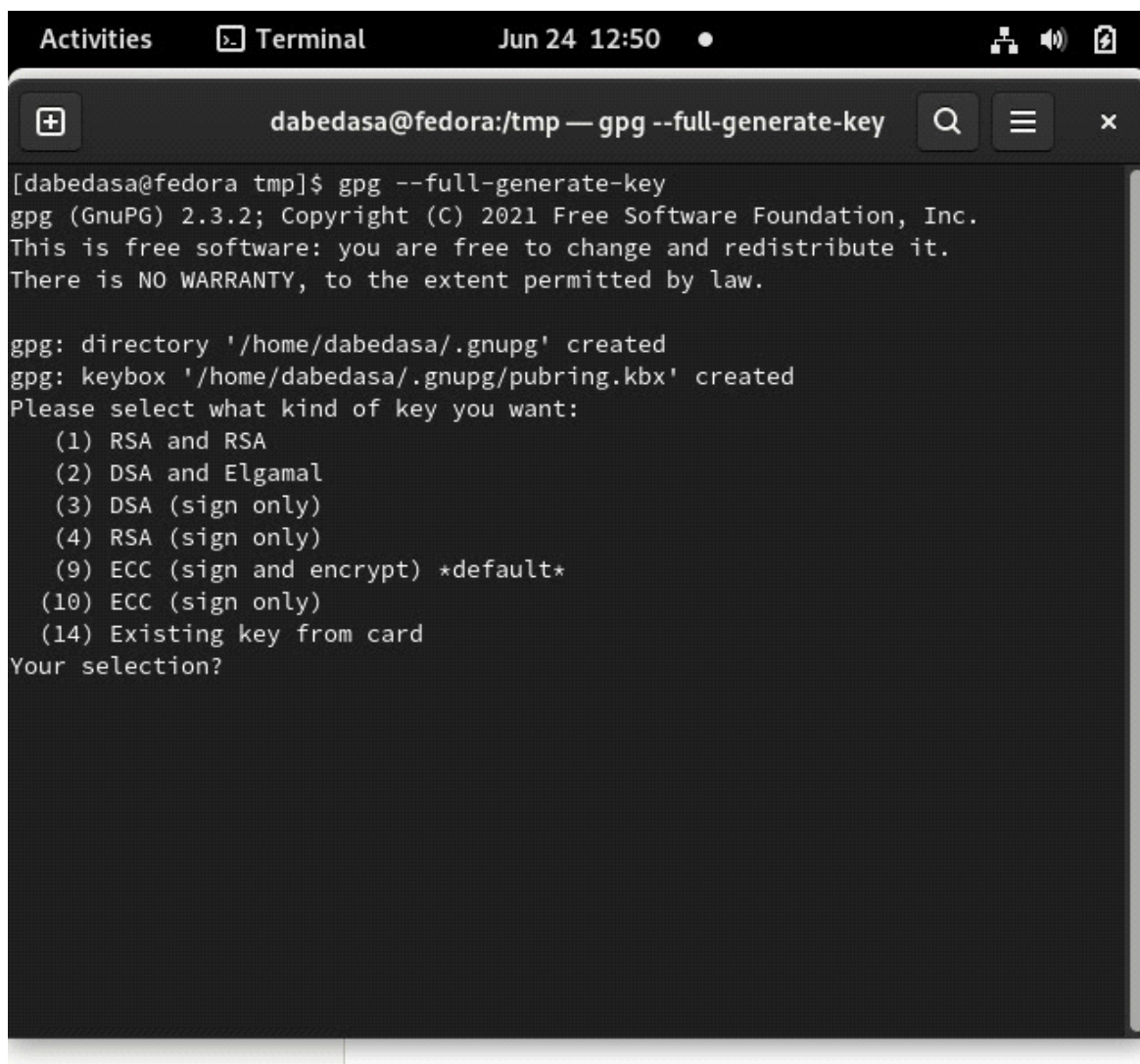
```
git config --global init.defaultBranch master
```

```
git config --global core.autocrlf input
```

```
git config --global core.safecrlf warn
```

С помощью данных команд зададим имя и email, настроим utf8, зададим имя начальной ветки, а также параметры autocrlf и safecrlf.

- Создаем ключи ssh с помощью команд `ssh-keygen -t rsa -b 4096` и `ssh-keygen -t ed25519`
- Создаем ключи pgp

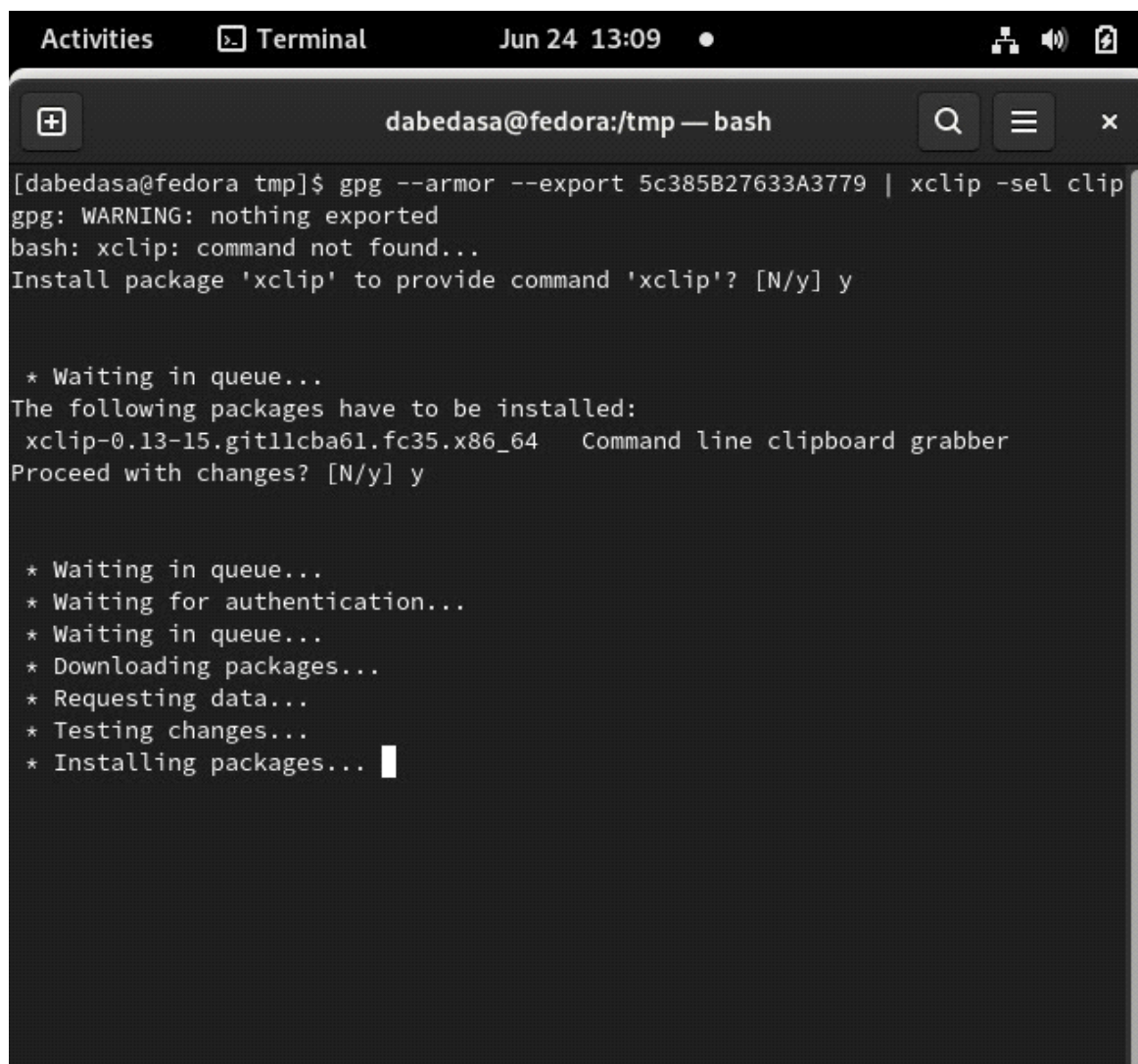


```
Activities Terminal Jun 24 12:50
dabedasa@fedora:/tmp — gpg --full-generate-key
[dabedasa@fedora tmp]$ gpg --full-generate-key
gpg (GnuPG) 2.3.2; Copyright (C) 2021 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

gpg: directory '/home/dabedasa/.gnupg' created
gpg: keybox '/home/dabedasa/.gnupg/pubring.kbx' 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?
```

Рис 3. Вводим программу и выбираем интересующие нас значения

6. Добавление PGP ключа в GitHub



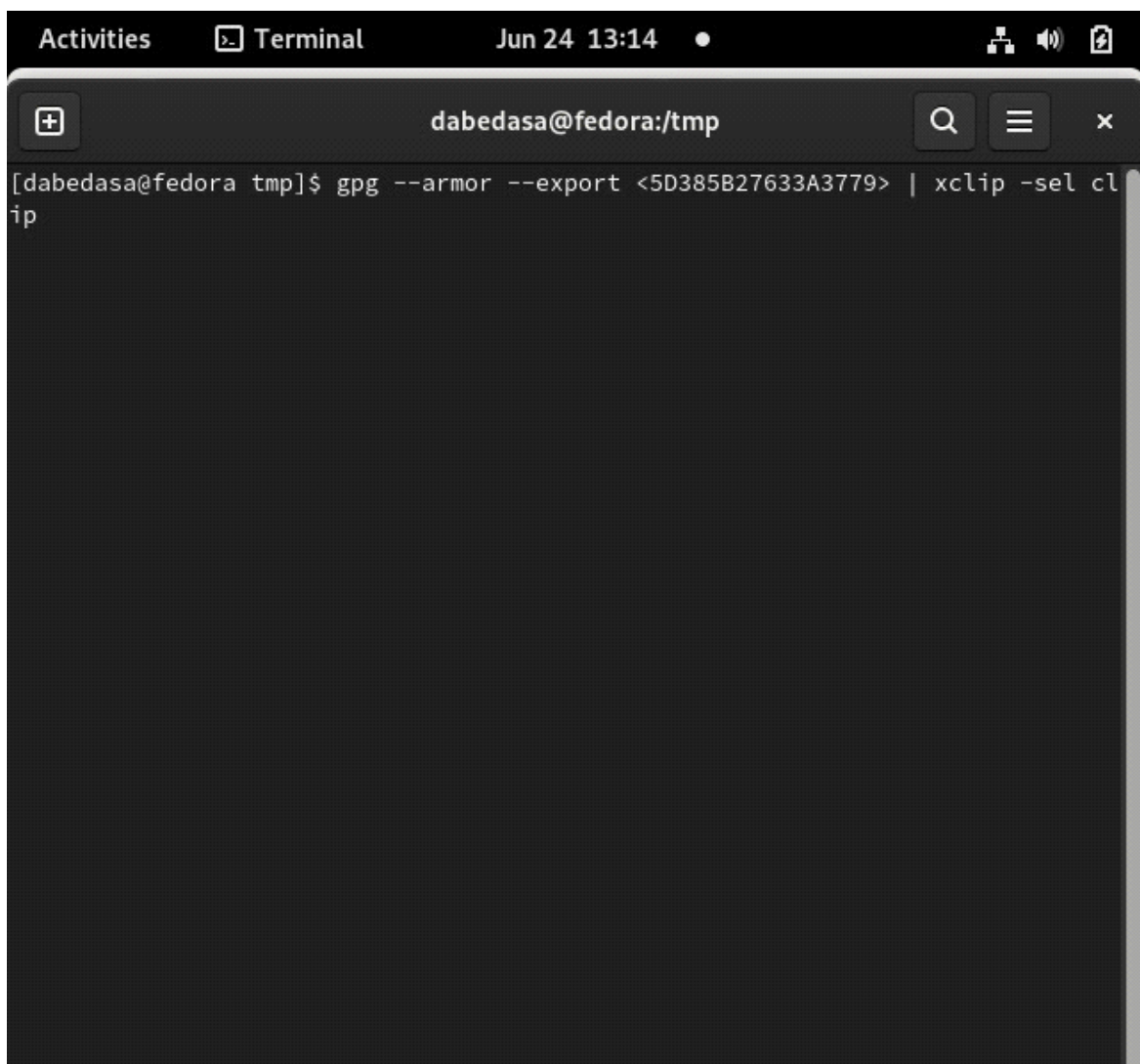
The image shows a terminal window titled "Terminal" with the date and time "Jun 24 13:09". The user is logged in as "dabedasa@fedora" in the directory "/tmp". The terminal shows the execution of the command `gpg --armor --export 5c385B27633A3779 | xclip -sel clip`. The output indicates that the GPG key was not exported and that the `xclip` command was not found. The user is prompted to install the package 'xclip' and responds with 'y'. The terminal then shows the progress of the installation, including waiting in the queue, downloading packages, and testing changes.

```
[dabedasa@fedora tmp]$ gpg --armor --export 5c385B27633A3779 | xclip -sel clip
gpg: WARNING: nothing exported
bash: xclip: command not found...
Install package 'xclip' to provide command 'xclip'? [N/y] y

* Waiting in queue...
The following packages have to be installed:
xclip-0.13-15.git11cba61.fc35.x86_64  Command line clipboard grabber
Proceed with changes? [N/y] y

* Waiting in queue...
* Waiting for authentication...
* Waiting in queue...
* Downloading packages...
* Requesting data...
* Testing changes...
* Installing packages... █
```

Рис 4. Копируем отпечаток ключа

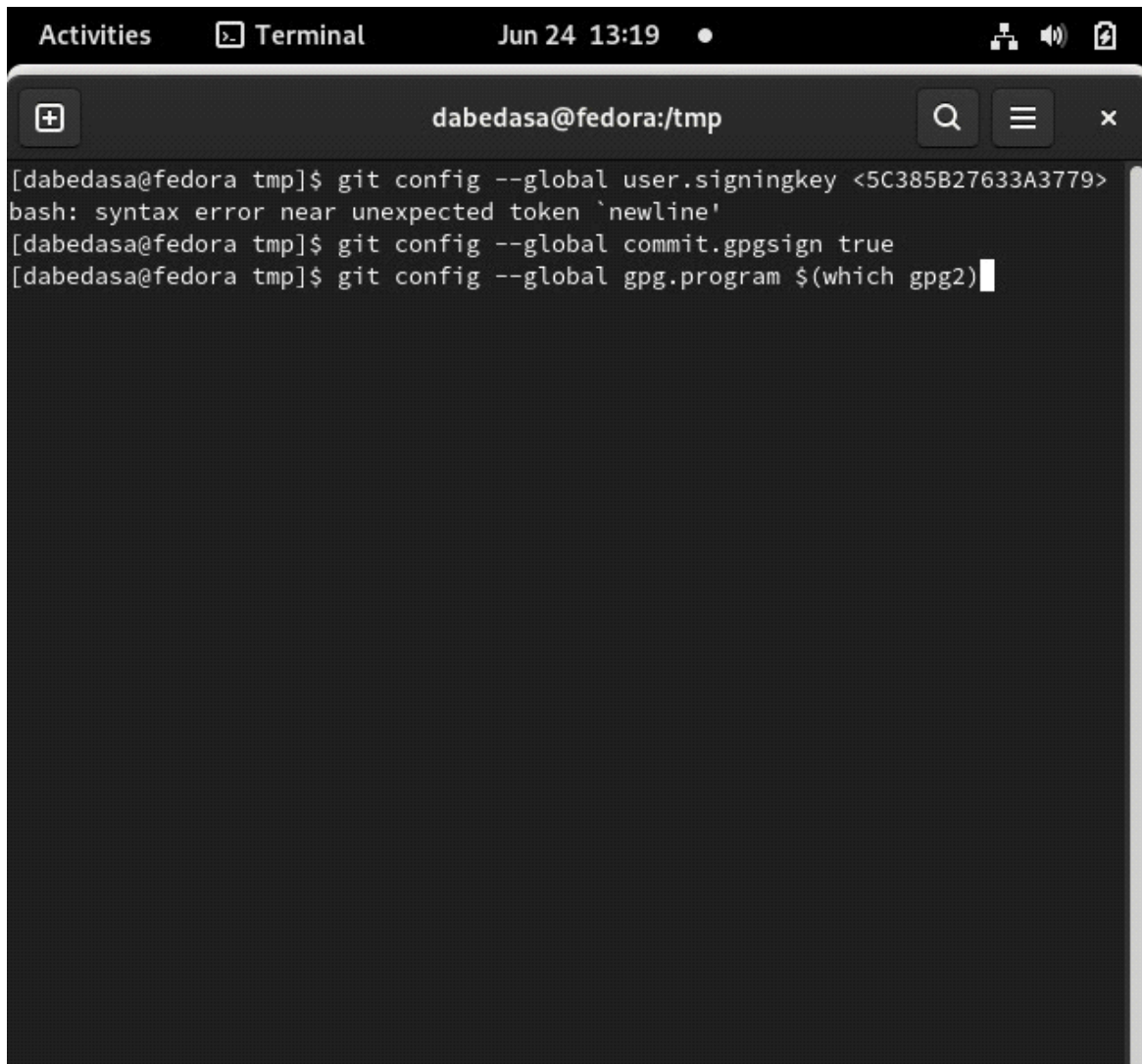


The image shows a terminal window titled "Terminal" with the date and time "Jun 24 13:14". The prompt is "dabedasa@fedora:/tmp". The command entered is "gpg --armor --export <5D385B27633A3779> | xclip -sel cl" and the output is "ip".

```
dabedasa@fedora:/tmp$ gpg --armor --export <5D385B27633A3779> | xclip -sel cl
ip
```

Рис 5. Копируем наш ключ и вставляем в GitHub

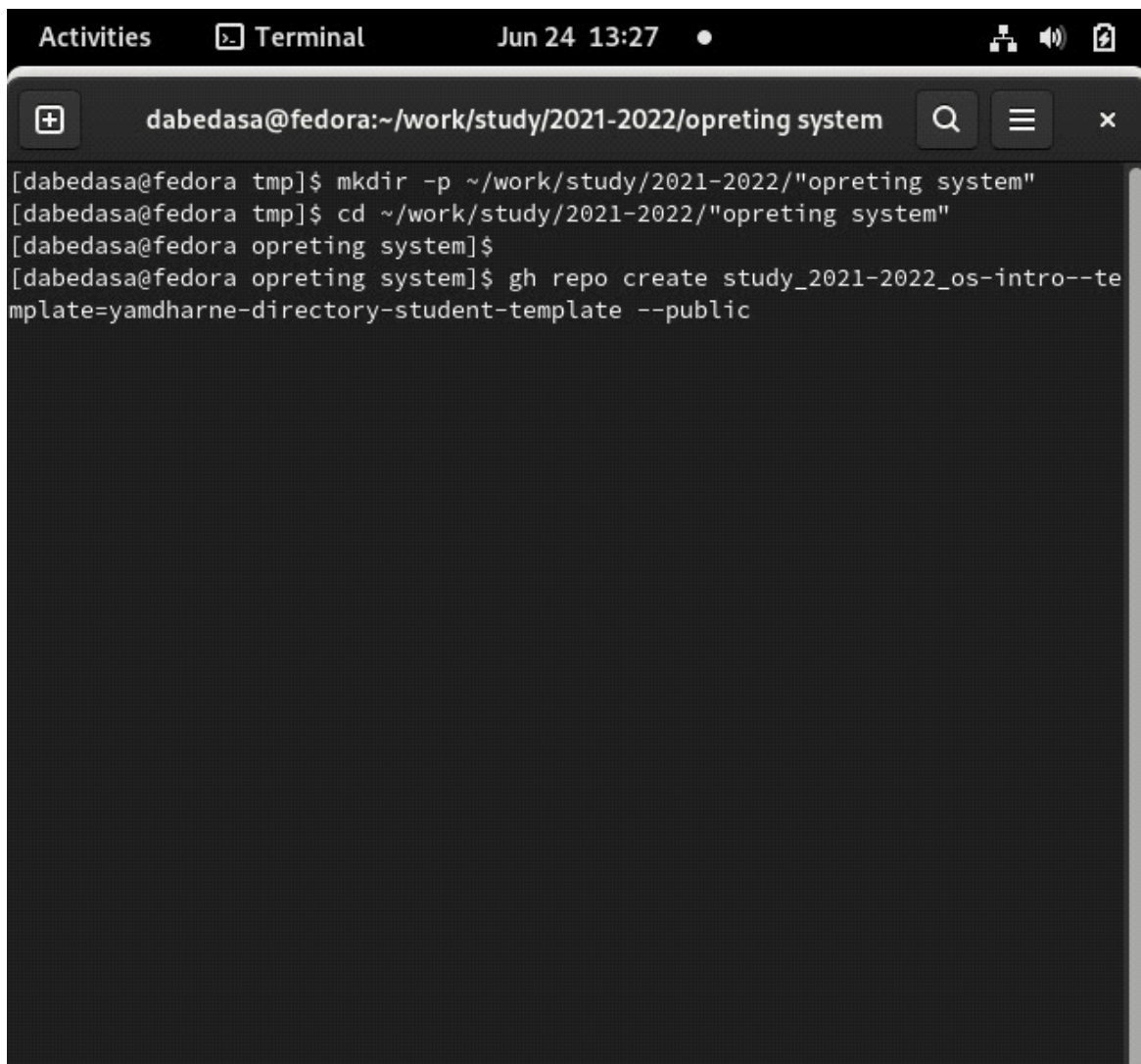
7. Настраиваем автоматическую подпись коммитов

A terminal window titled 'Terminal' with a date and time of 'Jun 24 13:19'. The window shows a user 'dabedasa' at a 'fedora' machine in the '/tmp' directory. The user enters three Git configuration commands: 'git config --global user.signingkey <5C385B27633A3779>', which results in a 'bash: syntax error near unexpected token `newline'' error; 'git config --global commit.gpgsign true'; and 'git config --global gpg.program \$(which gpg2)' which is followed by a cursor.

```
[dabedasa@fedora tmp]$ git config --global user.signingkey <5C385B27633A3779>
bash: syntax error near unexpected token `newline'
[dabedasa@fedora tmp]$ git config --global commit.gpgsign true
[dabedasa@fedora tmp]$ git config --global gpg.program $(which gpg2)
```

Рис 6. Используя введённый email, указываем Git применять его при подписи коммитов

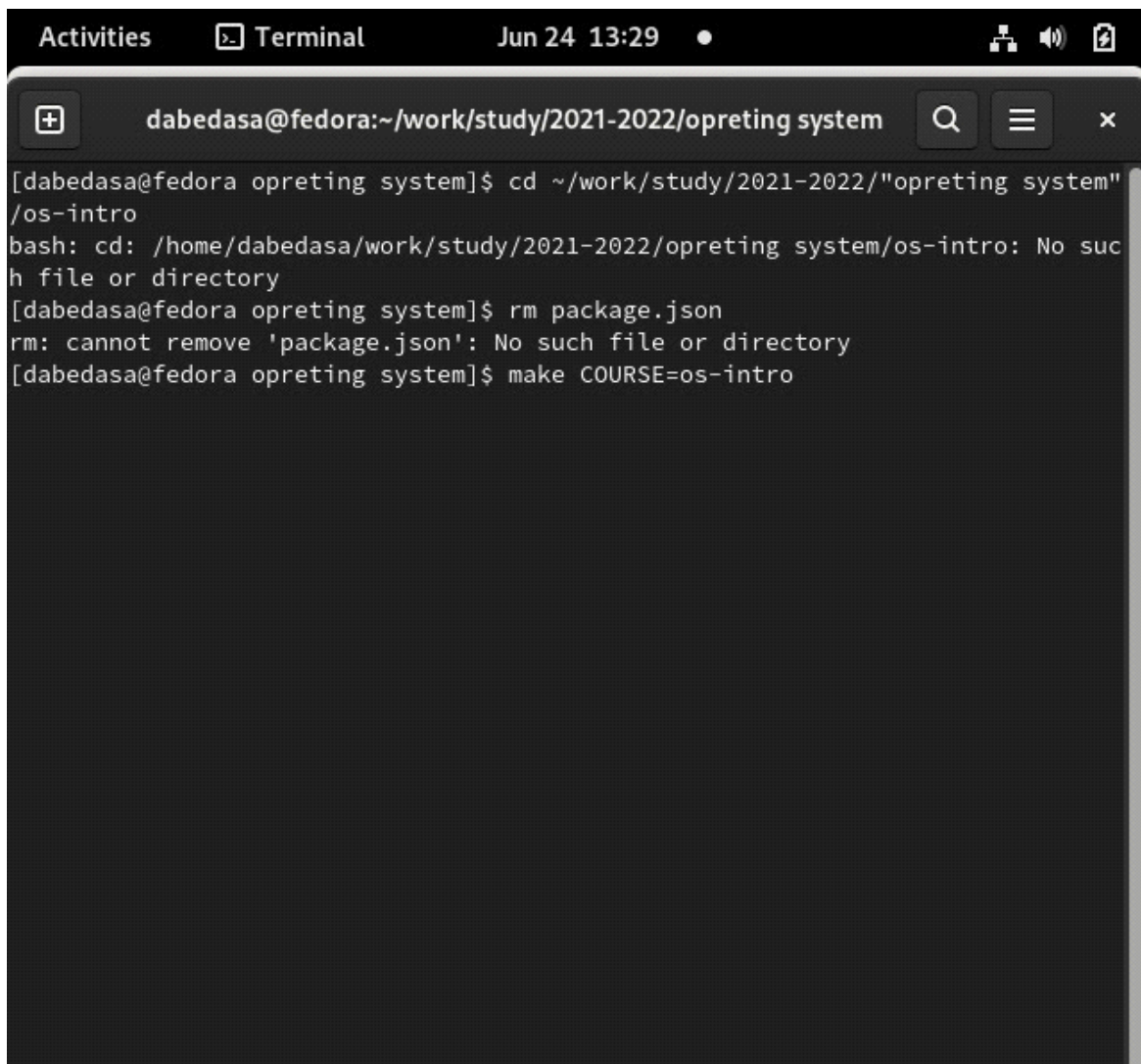
8. С помощью команды `gh auth login` авторизуемся и создаем репозиторий курса на основе шаблона

A terminal window titled "Terminal" with a date and time of "Jun 24 13:27". The window shows a user named "dabedasa" at a Fedora machine. The user is in a directory "~/work/study/2021-2022/opreting system". The terminal output shows the following commands and their results:

```
[dabedasa@fedora tmp]$ mkdir -p ~/work/study/2021-2022/"opreting system"
[dabedasa@fedora tmp]$ cd ~/work/study/2021-2022/"opreting system"
[dabedasa@fedora opreting system]$
[dabedasa@fedora opreting system]$ gh repo create study_2021-2022_os-intro--te
mplate=yamdharne-directory-student-template --public
```

Рис 7. Создание репозитория примет следующий вид

9. Настраиваем каталог курса

A terminal window titled 'Terminal' with a date and time of 'Jun 24 13:29'. The window shows a user 'dabedasa' at a 'fedora' machine in the directory '~/work/study/2021-2022/opreting system'. The user enters the command 'cd ~/work/study/2021-2022/"opreting system"/os-intro', which results in a 'bash: cd: /home/dabedasa/work/study/2021-2022/opreting system/os-intro: No such file or directory' error. Next, the user enters 'rm package.json', resulting in a 'rm: cannot remove 'package.json': No such file or directory' error. Finally, the user enters 'make COURSE=os-intro', which is executed without an immediate response.

```
dabedasa@fedora:~/work/study/2021-2022/opreting system
[dabedasa@fedora opreting system]$ cd ~/work/study/2021-2022/"opreting system"/os-intro
bash: cd: /home/dabedasa/work/study/2021-2022/opreting system/os-intro: No such file or directory
[dabedasa@fedora opreting system]$ rm package.json
rm: cannot remove 'package.json': No such file or directory
[dabedasa@fedora opreting system]$ make COURSE=os-intro
```

Рис 8. С помощью данных команд настраиваем каталог

И с помощью данных команд

git add .

git commit -am 'feat(main): make course structure'

git push

отправляем файлы на сервер.

Выводы

В ходе выполнения данной лабораторной работы изучили идеологию и применение средств контроля версий, а также освоили умения по работе с git.