

Министерство образования Республики Беларусь  
Учреждение образования  
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ  
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей  
Кафедра информатики  
Дисциплина: Избранные главы информатики

**ОТЧЁТ**  
к лабораторной работе №1  
на тему:  
**«Система контроля версий Git»**

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## **Оглавление**

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## **Вариант 26**

### **Цель работы**

Познакомиться с возможностями и получить практические навыки работы с системой контроля версий Git.

## Ход работы

- 1) Подготовьте рабочее окружение в соответствии с типом вашей операционной системы.

```
C:\Users\shaveika>git config --global user.name "Ksenia654"
```

```
C:\Users\shaveika>git config --global user.email "ksushashaveyko@gmail.com"
C:\Users\shaveika>git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=main
user.name=Ksenia654
user.email=ksushashaveyko@gmail.com
```

- 2) Создайте структуру папок и выполните индивидуальное задание (использовать командную строку) и поместите в репозиторий Git на своем локальном компьютере.

```
C:\Users\shaveika>mkdir 353504_SHAVEIKO_26
C:\Users\shaveika>cd 353504_SHAVEIKO_26
C:\Users\shaveika\353504_SHAVEIKO_26>mkdir IGI
C:\Users\shaveika\353504_SHAVEIKO_26>mkdir STRWEB
C:\Users\shaveika\353504_SHAVEIKO_26>cd IGI
C:\Users\shaveika\353504_SHAVEIKO_26\IGI>mkdir LR1
C:\Users\shaveika\353504_SHAVEIKO_26\IGI>mkdir LR2
C:\Users\shaveika\353504_SHAVEIKO_26\IGI>mkdir LR3
C:\Users\shaveika\353504_SHAVEIKO_26\IGI>mkdir LR4
C:\Users\shaveika\353504_SHAVEIKO_26\IGI>mkdir LR5
```

```
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\shaveika>cd 353504_SHAVEIKO_26

C:\Users\shaveika\353504_SHAVEIKO_26>git init
Initialized empty Git repository in C:/Users/shaveika/353504_SHAVEIKO_26/.git/

C:\Users\shaveika\353504_SHAVEIKO_26>cd STRWEB

C:\Users\shaveika\353504_SHAVEIKO_26\STRWEB>mkdir LR1

C:\Users\shaveika\353504_SHAVEIKO_26\STRWEB>mkdir LR2 LR3 LR4

C:\Users\shaveika\353504_SHAVEIKO_26\STRWEB>cd ..

C:\Users\shaveika\353504_SHAVEIKO_26>cd IGI

C:\Users\shaveika\353504_SHAVEIKO_26\IGI>cd LR1

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>mkdir bar

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>cd bar

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar>mkdir 425

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar>mkdir bin

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar>cd bin
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin>mkdir 577

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin>mkdir head

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin>cd head

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin\head>mkdir 755

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin\head>cd ..

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin>echo "444" > readme.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar\bin>cd ..

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\bar>cd ..

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>mkdir foo

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>cd foo

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo>mkdir 233

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo>echo "707" > test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo>mkdir baz

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo>cd baz

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo\baz>mkdir 007
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo\baz>mkdir example
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo\baz>cd example
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo\baz\example>mkdir 222
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\foo\baz\example>
```

- 3) Создайте репозиторий внутри папки LR1 с помощью клонирования проекта с сайта github.com.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git clone https://github.com/smartiqaorg/geometric_lib
Cloning into 'geometric_lib'...
remote: Enumerating objects: 35, done.
remote: Total 35 (delta 0), reused 0 (delta 0), pack-reused 35 (from 1)
Receiving objects: 100% (35/35), 4.60 KiB | 261.00 KiB/s, done.
Resolving deltas: 100% (6/6), done.
```

- 4) Сделайте индексацию нескольких файлов в вашем Git-репозитории (git add ...).

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>cd geometric_lib
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo > file1.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo > file2.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo > file3.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo > file4.txt
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git add *.*.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file1.txt
    new file:   file2.txt
    new file:   file3.txt
    new file:   file4.txt
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git commit -m "4 empty .txt files"
[main 72dbc67] 4 empty .txt files
4 files changed, 4 insertions(+)
create mode 100644 file1.txt
create mode 100644 file2.txt
create mode 100644 file3.txt
create mode 100644 file4.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```



5) Внесите изменения в файлы.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo Kseniya > file1.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo Shaveiko > file2.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file1.txt
        modified:   file2.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

6) Выполните коммиты к проиндексированным файлам.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git add *
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git commit -m "2 files modified"
[main 1006286] 2 files modified
 2 files changed, 2 insertions(+), 2 deletions(-)
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

7) Добавьте и удалите файлы (один и группу файлов с определенным расширением).

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>del *.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:   file1.txt
        deleted:   file2.txt
        deleted:   file3.txt
        deleted:   file4.txt

no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git add *
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git commit -m "All .txt files deleted"
[main accde0c] All .txt files deleted
 4 files changed, 4 deletions(-)
 delete mode 100644 file1.txt
 delete mode 100644 file2.txt
 delete mode 100644 file3.txt
 delete mode 100644 file4.txt
```



8) Переименуйте файлы.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>echo > file.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git add *
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git commit -m "One new .txt file added"
[main 70dc965] One new .txt file added
 1 file changed, 1 insertion(+)
 create mode 100644 file.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>ren file.txt new_name.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git add *
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:   file.txt -> new_name.txt
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git commit -m "File was renamed"
[main b825441] File was renamed
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename file.txt => new_name.txt (100%)
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git status
On branch main
Your branch is ahead of 'origin/main' by 5 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

9) Создайте для IGI и STRWEB, а также для каждой ЛР, вложенной в них, отдельные ветки, переместите папки и файлы на соответствующие ветки (чтобы это реализовать, мне пришлось заполнить конечные для всех папок подпапки файлами .gitkeep , чтобы папки сохранялись при коммите).

```

C:\Users\shaveika\353504_SHAVEIKO_26>git add *

C:\Users\shaveika\353504_SHAVEIKO_26>git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   .gitkeep
    new file:   IGI/.gitkeep
    new file:   IGI/LR1/.gitkeep
    new file:   IGI/LR1/bar/.gitkeep
    new file:   IGI/LR1/bar/425/.gitkeep
    new file:   IGI/LR1/bar/bin/577/.gitkeep
    new file:   IGI/LR1/bar/bin/head/.gitkeep
    new file:   IGI/LR1/bar/bin/head/755/.gitkeep
    new file:   IGI/LR1/bar/bin/readme.txt
    new file:   IGI/LR1/foo/233/.gitkeep
    new file:   IGI/LR1/foo/baz/.gitkeep
    new file:   IGI/LR1/foo/baz/007/.gitkeep
    new file:   IGI/LR1/foo/baz/example/.gitkeep
    new file:   IGI/LR1/foo/baz/example/222/.gitkeep
    new file:   IGI/LR1/foo/test.txt
    new file:   IGI/LR1/geometric_lib
    new file:   IGI/LR2/.gitkeep
    new file:   IGI/LR3/.gitkeep
    new file:   IGI/LR4/.gitkeep
    new file:   IGI/LR5/.gitkeep
    new file:   STRWEB/.gitkeep
    new file:   STRWEB/LR1/.gitkeep
    new file:   STRWEB/LR2/.gitkeep
    new file:   STRWEB/LR3/.gitkeep
    new file:   STRWEB/LR4/.gitkeep

```

```

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI_LR1

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI_LR2

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI_LR3

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI_LR4

C:\Users\shaveika\353504_SHAVEIKO_26>git branch IGI_LR5

C:\Users\shaveika\353504_SHAVEIKO_26>git branch STRWEB

C:\Users\shaveika\353504_SHAVEIKO_26>git branch STRWEB_LR1

C:\Users\shaveika\353504_SHAVEIKO_26>git branch STRWEB_LR2

C:\Users\shaveika\353504_SHAVEIKO_26>git branch STRWEB_LR3

C:\Users\shaveika\353504_SHAVEIKO_26>git branch STRWEB_LR4

C:\Users\shaveika\353504_SHAVEIKO_26>git checkout IGI
Switched to branch 'IGI'

C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s STRWEB
STRWEB, Are you sure (Y/N)? Y

```

```
C:\Users\shaveika\353504_SHAVEIKO_26>git add *

C:\Users\shaveika\353504_SHAVEIKO_26>git status
On branch IGI
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    STRWEB/.gitkeep
        deleted:    STRWEB/LR1/.gitkeep
        deleted:    STRWEB/LR2/.gitkeep
        deleted:    STRWEB/LR3/.gitkeep
        deleted:    STRWEB/LR4/.gitkeep

C:\Users\shaveika\353504_SHAVEIKO_26>git commit -m "IGI struct"
[IGI a01e53c] IGI struct
 5 files changed, 5 deletions(-)
 delete mode 100644 STRWEB/.gitkeep
 delete mode 100644 STRWEB/LR1/.gitkeep
 delete mode 100644 STRWEB/LR2/.gitkeep
 delete mode 100644 STRWEB/LR3/.gitkeep
 delete mode 100644 STRWEB/LR4/.gitkeep

C:\Users\shaveika\353504_SHAVEIKO_26>git status
On branch IGI
nothing to commit, working tree clean
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>git checkout IGI_LR1
Already on 'IGI_LR1'
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s IGI\LR2
IGI\LR2, Are you sure (Y/N)? Y
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s IGI\LR3
IGI\LR3, Are you sure (Y/N)? Y
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s IGI\LR4
IGI\LR4, Are you sure (Y/N)? Y
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s IGI\LR5
IGI\LR5, Are you sure (Y/N)? Y
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s IGI
IGI, Are you sure (Y/N)? Y
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>rmdir /s STRWEB
STRWEB, Are you sure (Y/N)? Y
```



```
C:\Users\shaveika\353504_SHAVEIKO_26>git checkout main -- IGI/LR1
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>git add *
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>git status
```

```
On branch IGI_LR1
```

```
Changes to be committed:
```

```
(use "git restore --staged <file>..." to unstage)
```

```
deleted:    IGI/.gitkeep
deleted:    IGI/LR2/.gitkeep
deleted:    IGI/LR3/.gitkeep
deleted:    IGI/LR4/.gitkeep
deleted:    IGI/LR5/.gitkeep
deleted:    STRWEB/.gitkeep
deleted:    STRWEB/LR1/.gitkeep
deleted:    STRWEB/LR2/.gitkeep
deleted:    STRWEB/LR3/.gitkeep
deleted:    STRWEB/LR4/.gitkeep
```

```
C:\Users\shaveika\353504_SHAVEIKO_26>git commit -m "IGI_LR1 struct"
```

```
[IGI_LR1 be82172] IGI_LR1 struct
```

```
10 files changed, 10 deletions(-)
```

```
delete mode 100644 IGI/.gitkeep
delete mode 100644 IGI/LR2/.gitkeep
delete mode 100644 IGI/LR3/.gitkeep
delete mode 100644 IGI/LR4/.gitkeep
delete mode 100644 IGI/LR5/.gitkeep
delete mode 100644 STRWEB/.gitkeep
delete mode 100644 STRWEB/LR1/.gitkeep
delete mode 100644 STRWEB/LR2/.gitkeep
delete mode 100644 STRWEB/LR3/.gitkeep
delete mode 100644 STRWEB/LR4/.gitkeep
```

Остальные ветки и перенос на них необходимых файлов осуществлялись аналогичным образом.

10) Выведите историю коммитов: полностью и с ограничением вывода – отобразить только последние, до и после указанной даты, по автору файлов, коммитов (флаги n, since, after, until, before, author, committer, grep).

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300

    file was renamed

commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300

    All .txt files was deleted and one .txt file was created

commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300

    2 .txt files modified

commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300

    4 empty .txt files

commit d078c8d9ee6155f3cb0e577d28d337b791de28e2 (origin/main, origin/HEAD)
Author: smartiga <info@smartiga.ru>
Date: Thu Mar 4 14:55:29 2021 +0300

    L-03: Docs added

```

```

C:\Users\shaveika\353504_SHAVEIKO_26>git log
commit da6631765fd4414936265a59e5c1b821886f73e7 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Wed Feb 19 17:34:49 2025 +0300

    add .gitkeep in all empty folders

```

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log -n 2
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300

    file was renamed

commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300

    All .txt files was deleted and one .txt file was created

```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --author="Ksenia654"
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

```
commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt files

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --since="2025-02-23 17:45:31" --until="2025-02-23 17:47:58"
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --before="2025-02-24" --grep="files"
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt **files** was deleted and one .txt file was created

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt **files** modified

```
commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt **files**

11) Исследуйте флаги для git log: p , stat ,shortstat, name-only, name-status, relative-date, pretty, graph.



```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log -p
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
diff --git a/file.txt b/new_name.txt
similarity index 100%
rename from file.txt
rename to new_name.txt
```

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
diff --git a/fil1.txt b/fil1.txt
deleted file mode 100644
index 4986d2b..0000000
--- a/fil1.txt
+++ /dev/null
@@ -1 +0,0 @@
-Shaveiko
diff --git a/file1.txt b/file.txt
similarity index 100%
rename from file1.txt
rename to file.txt
diff --git a/file2.txt b/file2.txt
....skipping...
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --stat
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
file.txt => new_name.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
fil1.txt | 1 -
file1.txt => file.txt | 0
file2.txt | 1 -
file3.txt | 1 -
4 files changed, 3 deletions(-)
```

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

```
fil1.txt | 1 +
file3.txt | 2 +-
2 files changed, 2 insertions(+), 1 deletion(-)
```

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --shortstat
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

1 file changed, 0 insertions(+), 0 deletions(-)

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

4 files changed, 3 deletions(-)

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

2 files changed, 2 insertions(+), 1 deletion(-)

```
commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt files

3 files changed, 3 insertions(+)

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --name-only
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

new\_name.txt

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

fil1.txt  
file.txt  
file2.txt  
file3.txt

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

fil1.txt  
file3.txt

```
commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt files

file1.txt  
file2.txt  
file3.txt

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --name-status
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300

    file was renamed

R100    file.txt          new_name.txt

commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300

    All .txt files was deleted and one .txt file was created

D       fil1.txt
R100    file1.txt        file.txt
D       file2.txt
D       file3.txt

commit 536f87c09402f7b38363dc6815bbcbe7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300

    2 .txt files modified

A       fil1.txt
M       file3.txt

```

---

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --relative-date
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: 34 minutes ago

    file was renamed

commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: 35 minutes ago

    All .txt files was deleted and one .txt file was created

commit 536f87c09402f7b38363dc6815bbcbe7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: 36 minutes ago

    2 .txt files modified

commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: 39 minutes ago

    4 empty .txt files

commit d078c8d9ee6155f3cb0e577d28d337b791de28e2 (origin/main, origin/HEAD)
Author: smartika <info@smartika.ru>
Date: 4 years ago

    L-03: Docs added

commit 8ba9aeb3cea847b63a91ac378a2a6db758682460
Author: smartika <info@smartika.ru>
Date: 4 years ago

    L-03: Circle and square added

```



```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --pretty
commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

```
commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt files

```
commit d078c8d9ee6155f3cb0e577d28d337b791de28e2 (origin/main, origin/HEAD)
Author: smartika <info@smartika.ru>
Date: Thu Mar 4 14:55:29 2021 +0300
```

L-03: Docs added

```
commit 8ba9aeb3cea847b63a91ac378a2a6db758682460
Author: smartika <info@smartika.ru>
Date: Thu Mar 4 14:54:08 2021 +0300
```

L-03: Circle and square added

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git log --graph
* commit 0d5e46ac6640cd43dd040d6710b5afe7a9de4053 (HEAD -> main)
  Author: Ksenia654 <ksushashaveyko@gmail.com>
  Date: Sun Feb 23 17:47:58 2025 +0300
```

file was renamed

```
* commit 6805e5b8cb497204c731adbe17aa9a16d0dea2df
  Author: Ksenia654 <ksushashaveyko@gmail.com>
  Date: Sun Feb 23 17:46:57 2025 +0300
```

All .txt files was deleted and one .txt file was created

```
* commit 536f87c09402f7b38363dc6815bbcb7a6659bf2
  Author: Ksenia654 <ksushashaveyko@gmail.com>
  Date: Sun Feb 23 17:45:31 2025 +0300
```

2 .txt files modified

```
* commit f79988c01f09b0f0e857b4f1ef0808c7d0123e92
  Author: Ksenia654 <ksushashaveyko@gmail.com>
  Date: Sun Feb 23 17:42:30 2025 +0300
```

4 empty .txt files

12) Найдите разницу в изменениях для каждого коммита.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1\geometric_lib>git diff f79888c61f09b0f8e857b4f1ef0888c700123e92 6885e5b8cb497284c731adba17aa9a15d8dea2df
diff --git a/file1.txt b/file.txt
similarity index 100%
rename from file1.txt
rename to file.txt
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 4d6a3b4..0000000
--- a/file2.txt
+++ /dev/null
@@ -1,0,0 @@
-EOC is on.
diff --git a/file3.txt b/file3.txt
deleted file mode 100644
index 4d6a3b4..0000000
--- a/file3.txt
+++ /dev/null
@@ -1,0,0 @@
-EOC is on.
```

13) Создайте новый файл test.txt и вставьте в него строчку 'номер варианта'. Затем сделайте коммит и отмените его.

```
E:\IGI\253502_HVESKO_22\IGI\LR1\geometric_lib>echo 22 > test.txt
E:\IGI\253502_HVESKO_22\IGI\LR1\geometric_lib>git add test.txt
E:\IGI\253502_HVESKO_22\IGI\LR1\geometric_lib>git commit -m "test"
[main 10ed7fb] test
1 file changed, 1 insertion(+)
create mode 100644 test.txt

E:\IGI\253502_HVESKO_22\IGI\LR1\geometric_lib>git revert HEAD
[main 383eacb] revert commit
1 file changed, 1 deletion(-)
delete mode 100644 test.txt

E:\IGI\253502_HVESKO_22\IGI\LR1\geometric_lib>git log
commit 383eacbf3d511926bd60ec45ead7e1d9e29fb094 (HEAD -> main)
Author: Hvesko_Gennady_253502 <pprom5573@gmail.com>
Date: Thu Feb 15 16:50:15 2024 +0300

    revert commit

This reverts commit 10ed7fbad73e725a63515050a5922692769522e4.
```

14) Создайте новый файл test.txt и вставьте в него строчку 'номер варианта'. затем сделайте коммит и отмените его

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>echo "Номер варианта:26" > test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git add test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git commit -m "test.txt created"
[main 2f33cbf] test.txt created
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/LR1/test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git log
commit 2f33cbfa777924541a858f1e8a96a37a52baa8ba (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date:   Sun Feb 23 20:06:22 2025 +0300

    test.txt created

commit e6172fa988c22cd6f6b43d31b59f6a3919eebf1c
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date:   Sun Feb 23 19:55:07 2025 +0300

    structure of branch

```

```

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git reset --soft HEAD~1

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git log
commit e6172fa988c22cd6f6b43d31b59f6a3919eebf1c (HEAD -> main)
Author: Ksenia654 <ksushashaveyko@gmail.com>
Date:   Sun Feb 23 19:55:07 2025 +0300

    structure of branch

```

15)Проиндексируйте файл в вашем Git-репозитории, затем отмените его индексацию.

```

C:\Users\shaveika\Бгуйр 2 купс\353504_SHAVEIKO_26\IGI\LR1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test.txt

C:\Users\shaveika\Бгуйр 2 купс\353504_SHAVEIKO_26\IGI\LR1>git restore --staged test.txt

C:\Users\shaveika\Бгуйр 2 купс\353504_SHAVEIKO_26\IGI\LR1>git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test.txt

nothing added to commit but untracked files present (use "git add" to track)

```

16) Внесите изменения в файл в вашем Git-репозитории и затем верните его в исходное состояние.



```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git add test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>echo "Номер варианта: 26" > test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git checkout -- test.txt

C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test.txt
```

17)Создайте удаленный репозиторий (на github.com).

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git remote add origin git@github.com:Ksenia654/IGI_SHAVEIKO_26.git  
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git remote -v  
origin  git@github.com:Ksenia654/IGI_SHAVEIKO_26.git (fetch)  
origin  git@github.com:Ksenia654/IGI_SHAVEIKO_26.git (push)
```

18)Просмотрите информацию о нем, внесите изменения и опять просмотрите (remote, fetch).

```
C:\Users\shaveika\353504_SHAVEIKO_26>git push -u origin main  
Enumerating objects: 27, done.  
Counting objects: 100% (27/27), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (21/21), done.  
Writing objects: 100% (26/26), 2.32 KiB | 158.00 KiB/s, done.  
Total 26 (delta 5), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (5/5), done.  
To github.com:Ksenia654/IGI_SHAVEIKO_26.git  
    dd83878..1a6ed83  main -> main  
branch 'main' set up to track 'origin/main'.  
  
C:\Users\shaveika\353504_SHAVEIKO_26>git remote -v  
origin  git@github.com:Ksenia654/IGI_SHAVEIKO_26.git (fetch)  
origin  git@github.com:Ksenia654/IGI_SHAVEIKO_26.git (push)  
  
C:\Users\shaveika\353504_SHAVEIKO_26>git remote show origin  
* remote origin  
  Fetch URL: git@github.com:Ksenia654/IGI_SHAVEIKO_26.git  
  Push URL:  git@github.com:Ksenia654/IGI_SHAVEIKO_26.git  
  HEAD branch: main  
  Remote branch:  
    main tracked  
  Local branch configured for 'git pull':  
    main merges with remote main  
  Local ref configured for 'git push':  
    main pushes to main (up to date)
```

19)Измените несколько файлов в вашем проекте и перенесите их в удаленный репозиторий.

```
C:\Users\shaveika\353504_SHAVEIKO_26>git status  
On branch main  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
    new file:   IGI/LR1/test.txt  
  
C:\Users\shaveika\353504_SHAVEIKO_26>git commit -m "Modifications with test.txt"  
[main a6be090] Modifications with test.txt  
 1 file changed, 1 insertion(+)  
 create mode 100644 IGI/LR1/test.txt  
  
C:\Users\shaveika\353504_SHAVEIKO_26>git status  
On branch main  
nothing to commit, working tree clean  
  
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git push origin main  
Everything up-to-date
```

20)Переименуйте свой удаленный репозиторий.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git remote set-url origin https://github.com/Ksenia654/IGI_STRWEB_SHAVEIKO.git
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git fetch origin
```

21)Получите данные из удаленного репозитория.

```
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git fetch origin
C:\Users\shaveika\353504_SHAVEIKO_26\IGI\LR1>git pull origin main
From https://github.com/Ksenia654/IGI_STRWEB_SHAVEIKO
 * branch      main      -> FETCH_HEAD
Already up to date.
```

22)Просмотреть историю изменений.

```
C:\Users\shaveika\Бгуйр 2 кырц\353504_SHAVEIKO_26\IGI>git log --all --remotes --oneline --graph
* 72b2bc9 (origin/IGI_LR3, IGI_LR3) Structure corrected
* 72b2bc9 (origin/IGI_LR3, IGI_LR3) Structure corrected
* 72b2bc9 (origin/IGI_LR3, IGI_LR3) Structure corrected
* 2d92b6c Upd
//
* 8ba99ca IGI_LR3 branch created
* 5b1a869 (origin/IGI, IGI) Update
//
//
* 0da09d1 (origin/IGI_LR1, IGI_LR1) Update
//
//
* 9c8efb3 (HEAD -> main, origin/main) Task 5c
* dbc45c6 Update
* 45ed233 IGI_LR1 branch created
//
//
* 348fde5 (origin/STRWEB_LR4, STRWEB_LR4) STRWEB_LR4 branch created
* 1a2b1ac (origin/STRWEB_LR3, STRWEB_LR3) STRWEB_LR3 branch created
//
* 4a3efd9 (origin/STRWEB_LR2, STRWEB_LR2) STRWEB_LR2 branch created
//
* cdb6e99 (origin/STRWEB_LR1, STRWEB_LR1) STRWEB_LR1 branch created
//
* 59c2fc1 (origin/STRWEB, STRWEB) STRWEB branch created
//
* 064b631 (origin/IGI_LR5, IGI_LR5) IGI_LR5 branch created
//
* acd71a4 (origin/IGI_LR4, IGI_LR4) IGI_LR4 branch created
//
```

```
//
//
* a8487b2 (origin/IGI_LR2, IGI_LR2) IGI_LR2 branch created
//
//
* 25aacfd IGI branch created
//
* 1e3b667 Rename file (task 4e)
* 9c56d2d deleted all files with .txt(task4d
* fcb2059 add 3 emty txt files for task 4d
* 78eaf67 files modified (task 4c)
* 2f9bdcc Add .gitkeep
```

23) Создайте дополнительную ветку 1 в удаленном репозитории, перенесите в нее два файла из другой ветки, удалите один из файлов.

```
C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git checkout -b 1
Switched to a new branch '1'

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>cd IGI

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26\IGI>cd LR1

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26\IGI\LR1>cd ..

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26\IGI>cd ..

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git rm -rf IGI
rm 'IGI/.gitkeep'
rm 'IGI/LR1/.gitkeep'
rm 'IGI/LR1/bar/.gitkeep'
rm 'IGI/LR1/bar/425/.gitkeep'
rm 'IGI/LR1/bar/bin/577/.gitkeep'
```

```
C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git rm -rf STRWEB
rm 'STRWEB/.gitkeep'
rm 'STRWEB/LR1/.gitkeep'
rm 'STRWEB/LR2/.gitkeep'
rm 'STRWEB/LR3/.gitkeep'
rm 'STRWEB/LR4/.gitkeep'
```

```
C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git add *
```

```
C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git status
```

```
On branch 1
```

```
Changes to be committed:
```

```
(use "git restore --staged <file>..." to unstage)
```

```
deleted:    IGI/.gitkeep
deleted:    IGI/LR1/.gitkeep
deleted:    IGI/LR1/bar/.gitkeep
deleted:    IGI/LR1/bar/425/.gitkeep
deleted:    IGI/LR1/bar/bin/577/.gitkeep
deleted:    IGI/LR1/bar/bin/head/.gitkeep
deleted:    IGI/LR1/bar/bin/head/755/.gitkeep
```

```
C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git commit -m "Empty branch 1"
```

```
[1 08eeac3] Empty branch 1
```

```
28 files changed, 54 deletions(-)
```

```
delete mode 100644 IGI/.gitkeep
delete mode 100644 IGI/LR1/.gitkeep
delete mode 100644 IGI/LR1/bar/.gitkeep
delete mode 100644 IGI/LR1/bar/425/.gitkeep
delete mode 100644 IGI/LR1/bar/bin/577/.gitkeep
delete mode 100644 IGI/LR1/bar/bin/head/.gitkeep
delete mode 100644 IGI/LR1/bar/bin/head/755/.gitkeep
delete mode 100644 IGI/LR1/bar/bin/readme.txt
delete mode 100644 IGI/LR1/bar/bin/233/.gitkeep
```



```

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git push origin 1
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (2/2), 241 bytes | 241.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for '1' on GitHub by visiting:
remote:   https://github.com/Ksenia654/IGI_STRWEB/pull/new/1
remote:
To https://github.com/Ksenia654/IGI_STRWEB.git
 * [new branch]      1 -> 1

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git checkout main -- IGI\LR1\test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git checkout main -- IGI\LR1\geometric_lib\new_name.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git ls-files
.gitkeep
IGI/LR1/geometric_lib/new_name.txt
IGI/LR1/test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git add *

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git status
On branch 1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:       .gitkeep
        new file:       new_name.txt
        new file:       test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git commit -m "Add 2 files to branch 1"
[1 1ea1d60] Add 2 files to branch 1
3 files changed, 2 insertions(+), 1 deletion(-)
delete mode 100644 .gitkeep
create mode 100644 new_name.txt
create mode 100644 test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>del test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git add *

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git commit -m "Delet one file from branch 1"
[1 1d83cca] Delet one file from branch 1
1 file changed, 1 deletion(-)
delete mode 100644 test.txt

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git push origin 1
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 562 bytes | 281.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Ksenia654/IGI_STRWEB.git
 08eeac3..1d83cca 1 -> 1

```

24) создайте дополнительную ветку 2 в удаленном репозитории, перенесите в нее два файла из вашего проекта, слить изменения в основную ветку, удалить дополнительную ветку 2.

```

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git checkout -b 2
Switched to a new branch '2'

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git status
On branch 2
nothing to commit, working tree clean

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git push origin 2
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for '2' on GitHub by visiting:
remote:   https://github.com/Ksenia654/IGI_STRWEB/pull/new/2
remote:
To https://github.com/Ksenia654/IGI_STRWEB.git
 * [new branch]      2 -> 2

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git add *

```

```

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git commit -m "Add two files to brancg 2"
[2 279b878] Add two files to brancg 2
 2 files changed, 2 insertions(+), 2 deletions(-)

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git push origin 2
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 598 bytes | 199.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/Ksenia654/IGI_STRWEB.git
 9c8efb3..279b878 2 -> 2

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

```

```

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git merge 2
Updating 9c8efb3..279b878
Fast-forward
 IGI/LR1/geometric_lib/new_name.txt | 2 +-
 IGI/LR1/test.txt                    | 2 +-
 2 files changed, 2 insertions(+), 2 deletions(-)

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git add *

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git commit -m "Merge branches"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

C:\Users\shaveika\Бгуйр 2 кypc\353504_SHAVEIKO_26>git push origin --delete 2
To https://github.com/Ksenia654/IGI_STRWEB.git
 - [deleted]      2

```



```

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git push origin --delete 2
To https://github.com/Ksenia654/IGI_STRWEB.git
- [deleted]          2

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git branch
 1
 2
 IGI
 IGI_LR1
 IGI_LR2
 IGI_LR3
 IGI_LR4
 IGI_LR5
 STRWEB
 STRWEB_LR1
 STRWEB_LR2
 STRWEB_LR3
 STRWEB_LR4
* main

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git branch -d 2
Deleted branch 2 (was 279b878).

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git branch
 1
 IGI
 IGI_LR1
 IGI_LR2
 IGI_LR3
 IGI_LR4
 IGI_LR5
 STRWEB
 STRWEB_LR1
 STRWEB_LR2
 STRWEB_LR3
 STRWEB_LR4
* main

```

```

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git fetch origin

C:\Users\shaveika\Бгуйр 2 курс\353504_SHAVEIKO_26>git push origin --all
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 598 bytes | 299.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/Ksenia654/IGI_STRWEB.git
 9c8efb3..279b878  main -> main

```

## Вывод

В ходе выполнения данной лабораторной работы мы познакомились с возможностями системы контроля версий Git, изучили основные команды по работе с ней, получили практические навыки, работая с локальными и удаленными репозиториями.

