

Лабораторная работа №1

Тема: Система контроля версий Git.

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

Задание 1. Подготовьте рабочее окружение в соответствии с типом вашей операционной системы(<https://smartiqa.ru/courses/git/lesson-1>):

- 1) Установите Git
- 2) Выполните базовую настройку

Так как Git уже был установлен прилагаю настройки

```
C:\Users\kir>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=kirillchertok
user.email=kirill250305@gmail.com
init.defaultbranch=main
```

Задание 2. Создайте структуру папок (использовать командную строку) и поместите в репозиторий Git на своем локальном компьютере:

(Наименование для базовой папки: **253501_IVANOV_12**, где 12 – порядковый номер в журнале)

GROUP_NUMBER_YOUR_LAST_NAME_NUMBER_IN_LIST

IGI

LR1

Папки и файлы в соответствии с индивидуальным заданием

Отчет по ЛР1 со скринами действий и результатов

LR2

LR3

LR4

LR5

STRWEB

LR1

LR2

LR3

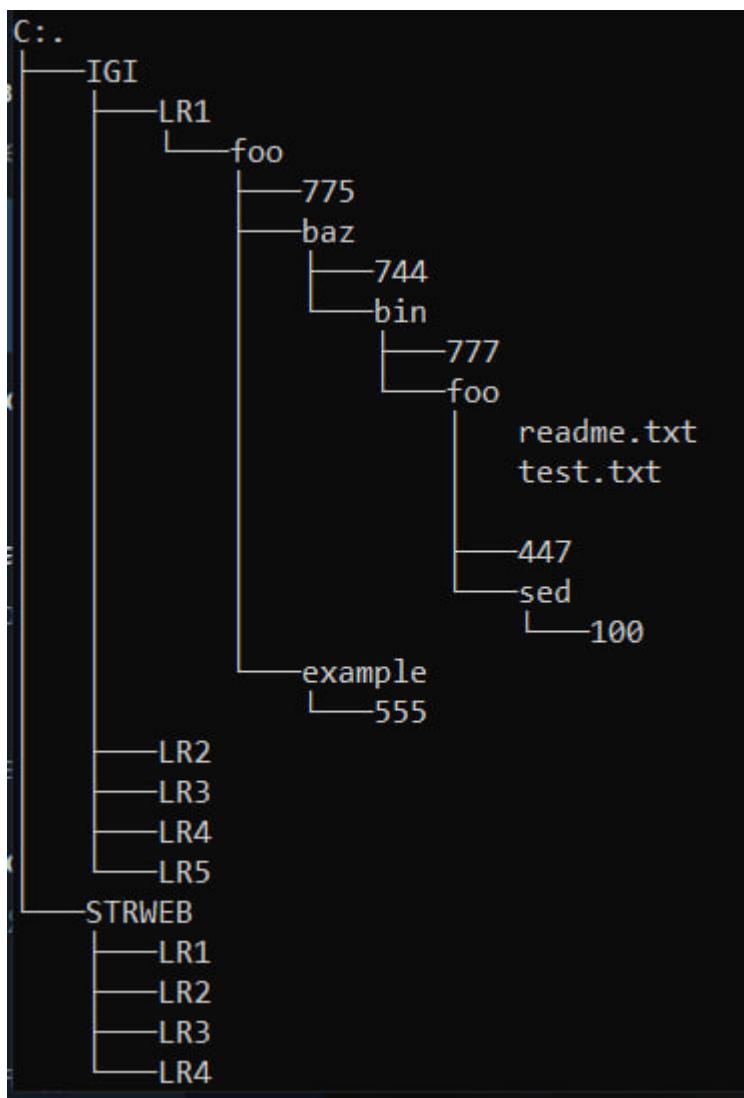
LR4

```
C:\Users\kir>mkdir C:\253502_Chertok_23  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI  
C:\Users\kir>mkdir C:\253502_Chertok_23\STRWEB  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR2  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR3  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR4  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR5  
C:\Users\kir>mkdir C:\253502_Chertok_23\STRWEB\LR1  
C:\Users\kir>mkdir C:\253502_Chertok_23\STRWEB\LR2  
C:\Users\kir>mkdir C:\253502_Chertok_23\STRWEB\LR3  
C:\Users\kir>mkdir C:\253502_Chertok_23\STRWEB\LR4
```

```
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\775  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\example  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\example\555  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\744  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\777  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo\447  
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo\sed  
C:\Users\kir>cd C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo
```

```
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>copy con readme.txt  
544  
^Z  
Скопировано файлов: 1.  
  
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>copy con test.txt  
001  
^Z  
Скопировано файлов: 1.
```

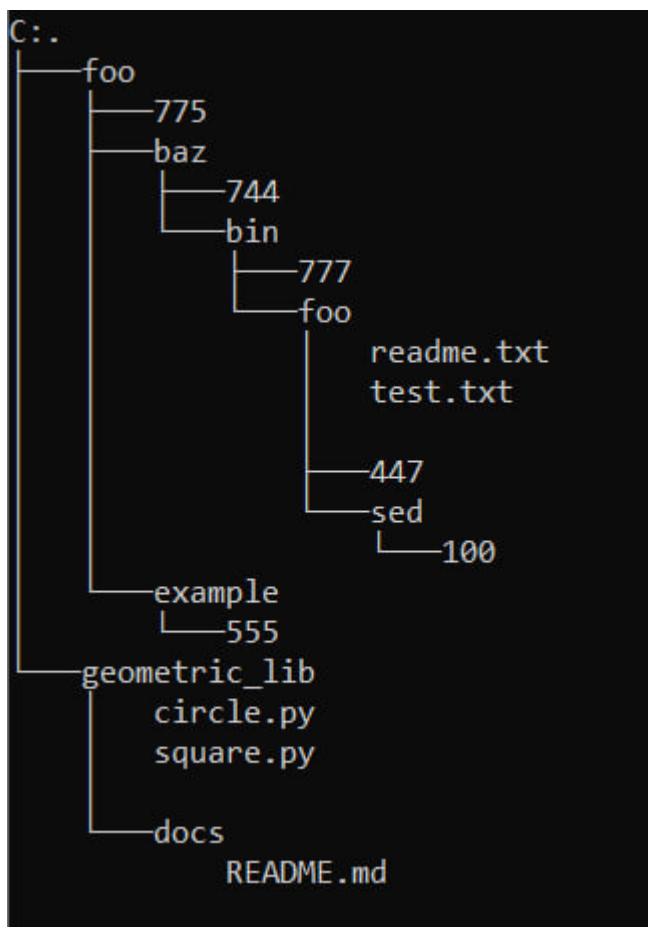
```
C:\Users\kir>mkdir C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo\sed\100  
C:\Users\kir>cd C:\253502_Chertok_23
```



```
C:\253502_Chertok_23>git init
Initialized empty Git repository in C:/253502_Chertok_23/.git/
```

Задание 3. Создайте репозиторий внутри папки LR1 с помощью клонирования проекта с сайта [github.com](https://github.com/smartigaorg/geometric_lib) (https://github.com/smartigaorg/geometric_lib)

```
C:\253502_Chertok_23\IGI\LR1>git clone https://github.com/smartigaorg/geometric_lib
Cloning into 'geometric_lib'...
remote: Enumerating objects: 35, done.
remote: Total 35 (delta 0), reused 0 (delta 0), pack-reused 35
Receiving objects: 100% (35/35), 4.60 KiB | 4.60 MiB/s, done.
Resolving deltas: 100% (6/6), done.
```



Задание 4. Выполните следующие действия, каждый раз проверяя состояние файлов в локальном репозитории до и после выполнения операции:

- 1) сделайте индексацию нескольких файлов в вашем Git-репозитории (`git add ...`),

```
C:\253502_Chertok_23>git status
On branch 253502_Chertok_23

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  IGI/
nothing added to commit but untracked files present (use "git add" to track)
```

```
C:\253502_Chertok_23>cd C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo

C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git add readme.txt

C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git add test.txt

C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git status
On branch 253502_Chertok_23

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   readme.txt
    new file:   test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../../../../geometric_lib/
```

2)внесите изменения в файлы,

```
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git status
On branch 253502_Chertok_23

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   readme.txt
    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:   readme.txt
    modified:   test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../../../../geometric_lib/
```

3)выполните коммиты к проиндексированным файлам,

```
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git commit -m "changes in test.txt + readme.txt"
[253502_Chertok_23 (root-commit) a56e4b6] changes in test.txt + readme.txt
2 files changed, 2 insertions(+)
create mode 100644 IGI/LR1/foo/baz/bin/foo/readme.txt
create mode 100644 IGI/LR1/foo/baz/bin/foo/test.txt

C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git status
On branch 253502_Chertok_23
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:   readme.txt
    modified:   test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ..../.../geometric_lib/

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

4) добавьте и удалите файлы (один из группу файлов с определенным расширением)

```
C:\253502_Chertok_23\IGI\LR1>echo Some text > test_txt.txt

C:\253502_Chertok_23\IGI\LR1>echo "#include <iostream>int main(){    std::cout<<"Hello World";    return 0;}" > test_cpp.cpp

C:\253502_Chertok_23\IGI\LR1>echo Some text 2 > test_txt_2.txt

C:\253502_Chertok_23\IGI\LR1>git status
On branch 253502_Chertok_23
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:   foo/baz/bin/foo/readme.txt
    modified:   foo/baz/bin/foo/test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    geometric_lib/
    test_cpp.cpp
    test_txt.txt
    test_txt_2.txt

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

```
C:\253502_Chertok_23\IGI\LR1>del test_cpp.cpp

C:\253502_Chertok_23\IGI\LR1>git status
On branch 253502_Chertok_23
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:   foo/baz/bin/foo/readme.txt
    modified:   foo/baz/bin/foo/test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    geometric_lib/
    test_txt.txt
    test_txt_2.txt

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

```
C:\253502_Chertok_23\IGI\LR1>del *.txt

C:\253502_Chertok_23\IGI\LR1>git status
On branch 253502_Chertok_23
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:   foo/baz/bin/foo/readme.txt
    modified:   foo/baz/bin/foo/test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    geometric_lib/

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

5)переименуйте файлы

```
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>git mv readme.txt README.txt  
C:\253502_Chertok_23\IGI\LR1\foo\baz\bin\foo>cd C:\253502_Chertok_23\IGI\LR1  
C:\253502_Chertok_23\IGI\LR1>git status  
On branch 253502_Chertok_23  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
    renamed:   foo/baz/bin/foo/readme.txt -> foo/baz/bin/foo/README.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:  foo/baz/bin/foo/README.txt  
    modified:  foo/baz/bin/foo/test.txt  
  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
    geometric_lib/
```

```
C:\253502_Chertok_23>git status  
On branch 253502_Chertok_23  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
    modified:  IGI/LR1/foo/baz/bin/foo/README.txt  
    modified:  IGI/LR1/foo/baz/bin/foo/test.txt  
    new file:  IGI/LR1/geometric_lib
```

```
C:\253502_Chertok_23>git commit -m "change in README.txt and test.txt"  
[253502_Chertok_23 39b7e81] change in README.txt and test.txt  
 3 files changed, 3 insertions(+), 2 deletions(-)  
 create mode 160000 IGI/LR1/geometric_lib
```

6)создайте для IGI и STRWEB, а также для каждой ЛР, вложенной в них,
отдельные ветки, переместите папки и файлы на соответствующие ветки

```
C:\253502_Chertok_23>echo Main-txt > Main-txt.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Main-txt.txt

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

C:\253502_Chertok_23>git add Main-txt.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Main-txt.txt

C:\253502_Chertok_23>git commit -m "Add Main-txt.txt"
[253502_Chertok_23 0f7bf98] Add Main-txt.txt
  1 file changed, 1 insertion(+)
  create mode 100644 Main-txt.txt
```

```
C:\253502_Chertok_23\IGI>git checkout -b IGI-B
Switched to a new branch 'IGI-B'

C:\253502_Chertok_23\IGI>git branch
  253502_Chertok_23
* IGI-B

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
nothing to commit, working tree clean

C:\253502_Chertok_23\IGI>echo IGI-B-txt > IGI-B-txt.txt

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    IGI-B-txt.txt

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

C:\253502_Chertok_23\IGI>git add IGI-B-txt.txt

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   IGI-B-txt.txt
```

```
C:\253502_Chertok_23\IGI>git commit -m "Add IGI-B-txt.txt"
[IGI-B 834f4c0] Add IGI-B-txt.txt
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/IGI-B-txt.txt
```

```
C:\253502_Chertok_23\IGI>cd C:\253502_Chertok_23\IGI\LR1\foo\example\555
C:\253502_Chertok_23\IGI\LR1\foo\example\555>echo Some text > init.txt
C:\253502_Chertok_23\IGI\LR1\foo\example\555>cd ../..
C:\253502_Chertok_23\IGI\LR1\foo>cd 775
C:\253502_Chertok_23\IGI\LR1\foo\775>echo Some text > init2.txt
```

```
C:\253502_Chertok_23\IGI>cd LR2

C:\253502_Chertok_23\IGI\LR2> git chekout -b IGI-B-LR2
git: 'chekout' is not a git command. See 'git --help'.

The most similar command is
    checkout

C:\253502_Chertok_23\IGI\LR2>git status
On branch IGI-B-LR1
nothing to commit, working tree clean

C:\253502_Chertok_23\IGI\LR2>git checkout -b IGI-B-LR2
Switched to a new branch 'IGI-B-LR2'

C:\253502_Chertok_23\IGI\LR2>git status
On branch IGI-B-LR2
nothing to commit, working tree clean

C:\253502_Chertok_23\IGI\LR2>echo IGI-B-LR2-TEXT > readme.md

C:\253502_Chertok_23\IGI\LR2>git add readme.md

C:\253502_Chertok_23\IGI\LR2>git status
On branch IGI-B-LR2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md

C:\253502_Chertok_23\IGI\LR2>git commit -m "IGI-B-LR2 init"
[IGI-B-LR2 36331cd] IGI-B-LR2 init
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/LR2/readme.md
```

```
C:\253502_Chertok_23\IGI\LR2>cd ../LR3

C:\253502_Chertok_23\IGI\LR3>git chekout -b IGI-B-LR3
git: 'chekout' is not a git command. See 'git --help'.

The most similar command is
    checkout

C:\253502_Chertok_23\IGI\LR3>git checkout -b IGI-B-LR3
Switched to a new branch 'IGI-B-LR3'

C:\253502_Chertok_23\IGI\LR3>echo IGI-B-LR3-TEXT > readme.md

C:\253502_Chertok_23\IGI\LR3>git add readme.md

C:\253502_Chertok_23\IGI\LR3>git status
On branch IGI-B-LR3
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md

C:\253502_Chertok_23\IGI\LR3>git commit -m "IGI-B-LR3 init"
[IGI-B-LR3 c5bf261] IGI-B-LR3 init
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/LR3/readme.md
```

```
C:\253502_Chertok_23\IGI\LR3>cd ../LR4

C:\253502_Chertok_23\IGI\LR4>git checkout -b IGI-B-LR4
Switched to a new branch 'IGI-B-LR4'

C:\253502_Chertok_23\IGI\LR4>echo IGI-B-LR4-TEXT > readme.md

C:\253502_Chertok_23\IGI\LR4>git add readme.md

C:\253502_Chertok_23\IGI\LR4>git status
On branch IGI-B-LR4
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md

C:\253502_Chertok_23\IGI\LR4>git commit -m "IGI-B-LR4 init"
[IGI-B-LR4 53c1864] IGI-B-LR4 init
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/LR4/readme.md
```

```
C:\253502_Chertok_23\IGI\LR4>cd ../LR5

C:\253502_Chertok_23\IGI\LR5>git checkout -b IGI-B-LR5
Switched to a new branch 'IGI-B-LR5'

C:\253502_Chertok_23\IGI\LR5>echo IGI-B-LR5-TEXT > readme.md

C:\253502_Chertok_23\IGI\LR5>git add readme.md

C:\253502_Chertok_23\IGI\LR5>git status
On branch IGI-B-LR5
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md

C:\253502_Chertok_23\IGI\LR5>git commit -m "IGI-B-LR5 init"
[IGI-B-LR5 77ca0e7] IGI-B-LR5 init
 1 file changed, 1 insertion(+)
 create mode 100644 IGI/LR5/readme.md
```

```
C:\253502_Chertok_23\IGI\LR5>cd ../

C:\253502_Chertok_23\IGI>git checkout IGI-B
Switched to branch 'IGI-B'

C:\253502_Chertok_23\IGI>git checkout IGI-B-LR1 LR1
Updated 4 paths from 8bb9aa6

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/foo/775/init2.txt
    new file:   LR1/foo/baz/744/init2.txt
    new file:   LR1/foo/baz/bin/777/init3.txt
    new file:   LR1/foo/example/555/init.txt
```

```
C:\253502_Chertok_23\IGI>git checkout IGI-B-LR2 LR2
Updated 1 path from f33c9cc

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/foo/775/init2.txt
    new file:   LR1/foo/baz/744/init2.txt
    new file:   LR1/foo/baz/bin/777/init3.txt
    new file:   LR1/foo/example/555/init.txt
    new file:   LR2/readme.md
```

```
C:\253502_Chertok_23\IGI>git checkout IGI-B-LR3 LR3
Updated 1 path from 11ad8f6

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/foo/775/init2.txt
    new file:   LR1/foo/baz/744/init2.txt
    new file:   LR1/foo/baz/bin/777/init3.txt
    new file:   LR1/foo/example/555/init.txt
    new file:   LR2/readme.md
    new file:   LR3/readme.md
```

```
C:\253502_Chertok_23\IGI>git checkout IGI-B-LR4 LR4
Updated 1 path from b0d97af

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:  LR1/foo/775/init2.txt
    new file:  LR1/foo/baz/744/init2.txt
    new file:  LR1/foo/baz/bin/777/init3.txt
    new file:  LR1/foo/example/555/init.txt
    new file:  LR2/readme.md
    new file:  LR3/readme.md
    new file:  LR4/readme.md
```

```
C:\253502_Chertok_23\IGI>git checkout IGI-B-LR5 LR5
Updated 1 path from cf1c138

C:\253502_Chertok_23\IGI>git status
On branch IGI-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:  LR1/foo/775/init2.txt
    new file:  LR1/foo/baz/744/init2.txt
    new file:  LR1/foo/baz/bin/777/init3.txt
    new file:  LR1/foo/example/555/init.txt
    new file:  LR2/readme.md
    new file:  LR3/readme.md
    new file:  LR4/readme.md
    new file:  LR5/readme.md
```

```
C:\253502_Chertok_23\IGI>git commit -m "IGI folder content added"
[IGI-B 15d87e9] IGI folder content added
8 files changed, 8 insertions(+)
create mode 100644 IGI/LR1/foo/775/init2.txt
create mode 100644 IGI/LR1/foo/baz/744/init2.txt
create mode 100644 IGI/LR1/foo/baz/bin/777/init3.txt
create mode 100644 IGI/LR1/foo/example/555/init.txt
create mode 100644 IGI/LR2/readme.md
create mode 100644 IGI/LR3/readme.md
create mode 100644 IGI/LR4/readme.md
create mode 100644 IGI/LR5/readme.md
```

```
C:\253502_Chertok_23>cd STRWEB

C:\253502_Chertok_23\STRWEB>echo STRWEB-B-TXT > STRWEB-B-txt.txt

C:\253502_Chertok_23\STRWEB>git checkout -b STRWEB-B
Switched to a new branch 'STRWEB-B'

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .
nothing added to commit but untracked files present (use "git add" to track)

C:\253502_Chertok_23\STRWEB>git add STRWEB-B-txt.txt

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   STRWEB-B-txt.txt

C:\253502_Chertok_23\STRWEB>git commit -m "STRWEB-B init"
[STRWEB-B 860fef8] STRWEB-B init
  1 file changed, 1 insertion(+)
  create mode 100644 STRWEB/STRWEB-B-txt.txt
```

```
C:\253502_Chertok_23\STRWEB>cd LR1

C:\253502_Chertok_23\STRWEB\LR1>git checkout STRWEB-B-LR1
error: pathspec 'STRWEB-B-LR1' did not match any file(s) known to git

C:\253502_Chertok_23\STRWEB\LR1>git checkout -b STRWEB-B-LR1
Switched to a new branch 'STRWEB-B-LR1'

C:\253502_Chertok_23\STRWEB\LR1>echo STRWEB-B-LR1-TEXT > readme.md

C:\253502_Chertok_23\STRWEB\LR1>git status
On branch STRWEB-B-LR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .
nothing added to commit but untracked files present (use "git add" to track)

C:\253502_Chertok_23\STRWEB\LR1>git add readme.md

C:\253502_Chertok_23\STRWEB\LR1>git status
On branch STRWEB-B-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md

C:\253502_Chertok_23\STRWEB\LR1>git commit -m "STRWEB-B-LR1 init"
[STRWEB-B-LR1 009867b] STRWEB-B-LR1 init
 1 file changed, 1 insertion(+)
 create mode 100644 STRWEB/LR1/readme.md
```

```
C:\253502_Chertok_23\STRWEB\LR1>cd ..\LR2

C:\253502_Chertok_23\STRWEB\LR2>git checkout -b STRWEB-B-LR2
Switched to a new branch 'STRWEB-B-LR2'

C:\253502_Chertok_23\STRWEB\LR2>echo STRWEB-B-LR2-TEXT > readme.md

C:\253502_Chertok_23\STRWEB\LR2>git status
On branch STRWEB-B-LR2
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .
nothing added to commit but untracked files present (use "git add" to track)

C:\253502_Chertok_23\STRWEB\LR2>git add readme.md

C:\253502_Chertok_23\STRWEB\LR2>git commit -m "STRWEB-B-LR2 init"
[STRWEB-B-LR2 a9160f0] STRWEB-B-LR2 init
 1 file changed, 1 insertion(+)
 create mode 100644 STRWEB/LR2/readme.md
```

```
C:\253502_Chertok_23\STRWEB\LR2>cd ../LR3

C:\253502_Chertok_23\STRWEB\LR3>git checkout -b STRWEB-B-LR3
Switched to a new branch 'STRWEB-B-LR3'

C:\253502_Chertok_23\STRWEB\LR3>echo STRWEB-B-LR3-TEXT > readme.md

C:\253502_Chertok_23\STRWEB\LR3>git add readme.md

C:\253502_Chertok_23\STRWEB\LR3>git status
On branch STRWEB-B-LR3
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md


C:\253502_Chertok_23\STRWEB\LR3>git commit -m "STRWEB-B-LR3 init"
[STRWEB-B-LR3 ab60efd] STRWEB-B-LR3 init
  1 file changed, 1 insertion(+)
  create mode 100644 STRWEB/LR3/readme.md
```

```
C:\253502_Chertok_23\STRWEB\LR3>cd ../LR4

C:\253502_Chertok_23\STRWEB\LR4>git checkout -b STRWEB-B-LR4
Switched to a new branch 'STRWEB-B-LR4'

C:\253502_Chertok_23\STRWEB\LR4>echo STRWEB-B-LR4-TEXT > readme.md

C:\253502_Chertok_23\STRWEB\LR4>git add readme.md

C:\253502_Chertok_23\STRWEB\LR4>git status
On branch STRWEB-B-LR4
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   readme.md


C:\253502_Chertok_23\STRWEB\LR4>git commit -m "STRWEB-B-LR4 init"
[STRWEB-B-LR4 57c198b] STRWEB-B-LR4 init
  1 file changed, 1 insertion(+)
  create mode 100644 STRWEB/LR4/readme.md
```

```
C:\253502_Chertok_23\STRWEB\LR4>cd ../

C:\253502_Chertok_23\STRWEB>git checkout STRWEB-B
Switched to branch 'STRWEB-B'

C:\253502_Chertok_23\STRWEB>git checkout STRWEB-B-LR1 LR1
Updated 1 path from 9735b89

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/readme.md

C:\253502_Chertok_23\STRWEB>git checkout STRWEB-B-LR2 LR2
Updated 1 path from da4df4a

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/readme.md
    new file:   LR2/readme.md

C:\253502_Chertok_23\STRWEB>git checkout STRWEB-B-LR3 LR3
Updated 1 path from 736a0fe

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/readme.md
    new file:   LR2/readme.md
    new file:   LR3/readme.md

C:\253502_Chertok_23\STRWEB>git checkout STRWEB-B-LR4 LR4
Updated 1 path from 5bfd59f

C:\253502_Chertok_23\STRWEB>git status
On branch STRWEB-B
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   LR1/readme.md
    new file:   LR2/readme.md
    new file:   LR3/readme.md
    new file:   LR4/readme.md
```

```
C:\253502_Chertok_23\STRWEB>git commit -m "STRWEB folder content added"
[STRWEB-B 0f835f8] STRWEB folder content added
 4 files changed, 4 insertions(+)
 create mode 100644 STRWEB/LR1/readme.md
 create mode 100644 STRWEB/LR2/readme.md
 create mode 100644 STRWEB/LR3/readme.md
 create mode 100644 STRWEB/LR4/readme.md
```

```
C:\253502_Chertok_23\STRWEB>git checkout 253502_Chertok_23
Switched to branch '253502_Chertok_23'

C:\253502_Chertok_23\STRWEB>git checkout IGI-B IGI
error: pathspec 'IGI' did not match any file(s) known to git

C:\253502_Chertok_23\STRWEB>cd ../

C:\253502_Chertok_23>git checkout IGI-B IGI
Updated 9 paths from cf1c138

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   IGI/IGI-B-txt.txt
    new file:   IGI/LR1/foo/775/init2.txt
    new file:   IGI/LR1/foo/baz/744/init2.txt
    new file:   IGI/LR1/foo/baz/bin/777/init3.txt
    new file:   IGI/LR1/foo/example/555/init.txt
    new file:   IGI/LR2/readme.md
    new file:   IGI/LR3/readme.md
    new file:   IGI/LR4/readme.md
    new file:   IGI/LR5/readme.md

C:\253502_Chertok_23>git checkout STRWEB-B STRWEB
Updated 5 paths from 5bfd59f

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   IGI/IGI-B-txt.txt
    new file:   IGI/LR1/foo/775/init2.txt
    new file:   IGI/LR1/foo/baz/744/init2.txt
    new file:   IGI/LR1/foo/baz/bin/777/init3.txt
    new file:   IGI/LR1/foo/example/555/init.txt
    new file:   IGI/LR2/readme.md
    new file:   IGI/LR3/readme.md
    new file:   IGI/LR4/readme.md
    new file:   IGI/LR5/readme.md
    new file:   STRWEB/LR1/readme.md
    new file:   STRWEB/LR2/readme.md
    new file:   STRWEB/LR3/readme.md
    new file:   STRWEB/LR4/readme.md
    new file:   STRWEB/STRWEB-B-txt.txt
```

```
C:\253502_Chertok_23>git commit -m "Main folder with content from IGI an STRWEB added"
[253502_Chertok_23 25fd495] Main folder with content from IGI an STRWEB added
 14 files changed, 14 insertions(+)
 create mode 100644 IGI/IGI-B-txt.txt
 create mode 100644 IGI/LR1/foo/775/init2.txt
 create mode 100644 IGI/LR1/foo/baz/744/init2.txt
 create mode 100644 IGI/LR1/foo/baz/bin/777/init3.txt
 create mode 100644 IGI/LR1/foo/example/555/init.txt
 create mode 100644 IGI/LR2/readme.md
 create mode 100644 IGI/LR3/readme.md
 create mode 100644 IGI/LR4/readme.md
 create mode 100644 IGI/LR5/readme.md
 create mode 100644 STRWEB/LR1/readme.md
 create mode 100644 STRWEB/LR2/readme.md
 create mode 100644 STRWEB/LR3/readme.md
 create mode 100644 STRWEB/LR4/readme.md
 create mode 100644 STRWEB/STRWEB-B-txt.txt
```

```
C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
nothing to commit, working tree clean

C:\253502_Chertok_23>git brach
git: 'brach' is not a git command. See 'git --help'.
```

```
The most similar command is
  branch
```

```
C:\253502_Chertok_23>git branch
* 253502_Chertok_23
  IGI-B
  IGI-B-LR1
  IGI-B-LR2
  IGI-B-LR3
  IGI-B-LR4
  IGI-B-LR5
  STRWEB-B
  STRWEB-B-LR1
  STRWEB-B-LR2
  STRWEB-B-LR3
  STRWEB-B-LR4
```

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

<https://code.mu/ru/tool/git/basis/limit-output-commit-history-flags/> ,

```
C:\253502_Chertok_23>git log --branched --graph --oneline
fatal: unrecognized argument: --branched

C:\253502_Chertok_23>git log --branches --graph --oneline
* 25fd495 (HEAD -> 253502_Chertok_23) Main folder with content from IGI an STRWEB added
| * 0f835f8 (STRWEB-B) STRWEB folder content added
| | * 57c198b (STRWEB-B-LR4) STRWEB-B-LR4 init
| | * ab60efd (STRWEB-B-LR3) STRWEB-B-LR3 init
| | * a9160f0 (STRWEB-B-LR2) STRWEB-B-LR2 init
| | * 009867b (STRWEB-B-LR1) STRWEB-B-LR1 init
| |
| * 860fef8 STRWEB-B init
| * 15d87e9 (IGI-B) IGI folder content added
| | * 77ca0e7 (IGI-B-LR5) IGI-B-LR5 init
| | * 53c1864 (IGI-B-LR4) IGI-B-LR4 init
| | * c5bf261 (IGI-B-LR3) IGI-B-LR3 init
| | * 36331cd (IGI-B-LR2) IGI-B-LR2 init
| | * d424642 (IGI-B-LR1) IGI-B-LR1 init
| |
| * 834f4c0 Add IGI-B-txt.txt
|
* 0f7bf98 Add Main-txt.txt
* 39b7e81 change in README.txt and test.txt
* 3ed5e05 Rename readme.txt
* a56e4b6 changes in test.txt + readme.txt
```

```
C:\253502_Chertok_23>git log --branches -
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (STRWEB-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:02:01 2024 +0300

    STRWEB folder content added
```

```
C:\253502_Chertok_23>git log --branches --since="Sun Feb 18" --until="Mon Feb 19"
commit 3ed5e0578cc5caa8dcc74a2d9a7fbba5301d0e83
Author: kirillchertok <kirill250305@gmail.com>
Date:   Mon Feb 19 12:58:06 2024 +0300

    Rename readme.txt

commit a56e4b6218175821a1a853f069ecf5b98b7f798c
Author: kirillchertok <kirill250305@gmail.com>
Date:   Sun Feb 18 18:17:38 2024 +0300

    changes in test.txt + readme.txt
```

```
C:\253502_Chertok_23>git log --branches --after="Wed Feb 21 15:00" --before="Wed Feb 21 15:04"
commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (STRWEB-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:02:01 2024 +0300

    STRWEB folder content added
```

```
C:\253502_Chertok_23>git log --branches --author="kirillchertok" -3
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (STRWEB-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:02:01 2024 +0300

    STRWEB folder content added

commit 57c198b630cf591c6512f388b8390151eb41fbb4 (STRWEB-B-LR4)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:59:05 2024 +0300

    STRWEB-B-LR4 init
```

```
C:\253502_Chertok_23>git log --branches --committer="kirillchertok" -4
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (STRWEB-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:02:01 2024 +0300

    STRWEB folder content added

commit 57c198b630cf591c6512f388b8390151eb41fbb4 (STRWEB-B-LR4)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:59:05 2024 +0300

    STRWEB-B-LR4 init

commit ab60efdf9e57041a5b42202f1ed99de2fc5a177a (STRWEB-B-LR3)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:58:13 2024 +0300

    STRWEB-B-LR3 init
```

```
C:\253502_Chertok_23>git log --branches --grep="LR2"
commit a9160f09fca198b001e764fc9a52768888abea41 (STRWEB-B-LR2)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:56:59 2024 +0300

    STRWEB-B-LR2 init

commit 36331cd0a1acbf396e7952b7bdee944dccbb74a9 (IGI-B-LR2)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:41:54 2024 +0300

    IGI-B-LR2 init
```

8)исследуйте флаги для git log: p , stat ,shortstat, name-only, name-status, relative-date, pretty, graph,

```
C:\253502_Chertok_23>git log -p -1
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

diff --git a/IGI/IGI-B-txt.txt b/IGI/IGI-B-txt.txt
new file mode 100644
index 0000000..1a96796
--- /dev/null
+++ b/IGI/IGI-B-txt.txt
@@ -0,0 +1 @@
+IGI-B-txt
diff --git a/IGI/LR1/foo/775/init2.txt b/IGI/LR1/foo/775/init2.txt
new file mode 100644
index 0000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/775/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/744/init2.txt b/IGI/LR1/foo/baz/744/init2.txt
new file mode 100644
index 0000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/744/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/bin/777/init3.txt b/IGI/LR1/foo/baz/bin/777/init3.txt
new file mode 100644
index 0000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/bin/777/init3.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/example/555/init.txt b/IGI/LR1/foo/example/555/init.txt
new file mode 100644
index 0000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/example/555/init.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR2/readme.md b/IGI/LR2/readme.md
new file mode 100644
index 0000000..0c89ef1
--- /dev/null
+++ b/IGI/LR2/readme.md
@@ -0,0 +1 @@
```

```
C:\253502_Chertok_23>git log --stat
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

IGI/IGI-B-txt.txt | 1 +
IGI/LR1/foo/775/init2.txt | 1 +
IGI/LR1/foo/baz/744/init2.txt | 1 +
IGI/LR1/foo/baz/bin/777/init3.txt | 1 +
IGI/LR1/foo/example/555/init.txt | 1 +
IGI/LR2/readme.md | 1 +
IGI/LR3/readme.md | 1 +
IGI/LR4/readme.md | 1 +
IGI/LR5/readme.md | 1 +
STRWEB/LR1/readme.md | 1 +
STRWEB/LR2/readme.md | 1 +
STRWEB/LR3/readme.md | 1 +
STRWEB/LR4/readme.md | 1 +
STRWEB/STRWEB-B-txt.txt | 1 +
14 files changed, 14 insertions(+)

commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:26:46 2024 +0300

    Add Main-txt.txt

Main-txt.txt | 1 +
1 file changed, 1 insertion(+)

commit 39b7e811b9f78f3335ea13de2c5803dc957cdec4
Author: kirillchertok <kirill250305@gmail.com>
```

```
C:\253502_Chertok_23>git log --shortstat
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

14 files changed, 14 insertions(+)

commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:26:46 2024 +0300

    Add Main-txt.txt

1 file changed, 1 insertion(+)

commit 39b7e811b9f78f3335ea13de2c5803dc957cdec4
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:22:00 2024 +0300

    change in README.txt and test.txt

3 files changed, 3 insertions(+), 2 deletions(-)

commit 3ed5e0578cc5caa8dcc74a2d9a7fbba5301d0e83
Author: kirillchertok <kirill250305@gmail.com>
Date:   Mon Feb 19 12:58:06 2024 +0300

    Rename readme.txt

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

commit a56e4b6218175821a1a853f069ecf5b98b7f798c
Author: kirillchertok <kirill250305@gmail.com>
Date:   Sun Feb 18 18:17:38 2024 +0300

    changes in test.txt + readme.txt

2 files changed, 2 insertions(+)
```

```
C:\253502_Chertok_23>git log --name-only
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

IGI/IGI-B-txt.txt
IGI/LR1/foo/775/init2.txt
IGI/LR1/foo/baz/744/init2.txt
IGI/LR1/foo/baz/bin/777/init3.txt
IGI/LR1/foo/example/555/init.txt
IGI/LR2/readme.md
IGI/LR3/readme.md
IGI/LR4/readme.md
IGI/LR5/readme.md
STRWEB/LR1/readme.md
STRWEB/LR2/readme.md
STRWEB/LR3/readme.md
STRWEB/LR4/readme.md
STRWEB/STRWEB-B-txt.txt

commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:26:46 2024 +0300

    Add Main-txt.txt

Main-txt.txt

commit 39b7e811b9f78f3335ea13de2c5803dc957cdec4
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:22:00 2024 +0300

    change in README.txt and test.txt

IGI/LR1/foo/baz/bin/foo/README.txt
IGI/LR1/foo/baz/bin/foo/test.txt
IGI/LR1/geometric_lib
```

```
C:\253502_Chertok_23>git log --name-status
commit 25fd495dc175075cb47c04e524c0a91515911aa3 (HEAD -> 253502_Chertok_23)
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

A      IGI/IGI-B-txt.txt
A      IGI/LR1/foo/775/init2.txt
A      IGI/LR1/foo/baz/744/init2.txt
A      IGI/LR1/foo/baz/bin/777/init3.txt
A      IGI/LR1/foo/example/555/init.txt
A      IGI/LR2/readme.md
A      IGI/LR3/readme.md
A      IGI/LR4/readme.md
A      IGI/LR5/readme.md
A      STRWEB/LR1/readme.md
A      STRWEB/LR2/readme.md
A      STRWEB/LR3/readme.md
A      STRWEB/LR4/readme.md
A      STRWEB/STRWEB-B-txt.txt

commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
Author: kirillchertok <kirill250305@gmail.com>
Date:   Wed Feb 21 14:26:46 2024 +0300

    Add Main-txt.txt

A      Main-txt.txt
```

```
C:\253502_Chertok_23>git log --relative-date
commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (HEAD -> STRWEB-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   34 minutes ago

    STRWEB folder content added

commit 860fef8bf1159d94a638aba5ba90c2d2cef60fa2
Author: kirillchertok <kirill250305@gmail.com>
Date:   43 minutes ago

    STRWEB-B init

commit 15d87e9b881e01fd357b546b6f29a79f3127b50f (IGI-B)
Author: kirillchertok <kirill250305@gmail.com>
Date:   46 minutes ago

    IGI folder content added

commit 834f4c06d8c0eefb746fce71f1a16e43c146f372
Author: kirillchertok <kirill250305@gmail.com>
Date:   65 minutes ago

    Add IGI-B-txt.txt

commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
Author: kirillchertok <kirill250305@gmail.com>
Date:   69 minutes ago

    Add Main-txt.txt
```

```
C:\253502_Chertok_23>git log --graph
* commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (HEAD -> STRWEB-B)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 15:02:01 2024 +0300
|
|     STRWEB folder content added
|
* commit 860fef8bf1159d94a638aba5ba90c2d2cef60fa2
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:53:04 2024 +0300
|
|     STRWEB-B init
|
* commit 15d87e9b881e01fd357b546b6f29a79f3127b50f (IGI-B)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:49:50 2024 +0300
|
|     IGI folder content added
|
* commit 834f4c06d8c0eefb746fce71f1a16e43c146f372
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:30:23 2024 +0300
|
|     Add IGI-B-txt.txt
|
* commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
```

9)найдите разницу в изменениях для каждого коммита

```
C:\253502_Chertok_23>git log --branches -p --oneline
25fd495 (HEAD -> 253502_Chertok_23) Main folder with content from IGI an STRWEB added
diff --git a/IGI/IGI-B-txt.txt b/IGI/IGI-B-txt.txt
new file mode 100644
index 000000..1a96796
--- /dev/null
+++ b/IGI/IGI-B-txt.txt
@@ -0,0 +1 @@
+IGI-B-txt
diff --git a/IGI/LR1/foo/775/init2.txt b/IGI/LR1/foo/775/init2.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/775/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/744/init2.txt b/IGI/LR1/foo/baz/744/init2.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/744/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/bin/777/init3.txt b/IGI/LR1/foo/baz/bin/777/init3.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/bin/777/init3.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/example/555/init.txt b/IGI/LR1/foo/example/555/init.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/example/555/init.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR2/readme.md b/IGI/LR2/readme.md
new file mode 100644
index 000000..0c89ef1
--- /dev/null
+++ b/IGI/LR2/readme.md
@@ -0,0 +1 @@
+IGI-B-LR2-TEXT
diff --git a/IGI/LR3/readme.md b/IGI/LR3/readme.md
new file mode 100644
index 000000..5b712f9
--- /dev/null
+++ b/IGI/LR3/readme.md
@@ -0,0 +1 @@
```

```
+IGI-B-LR3-TEXT
diff --git a/IGI/LR4/readme.md b/IGI/LR4/readme.md
new file mode 100644
index 0000000..e9bcaea
--- /dev/null
+++ b/IGI/LR4/readme.md
@@ -0,0 +1 @@
+IGI-B-LR4-TEXT
diff --git a/IGI/LR5/readme.md b/IGI/LR5/readme.md
new file mode 100644
index 0000000..1e66878
--- /dev/null
+++ b/IGI/LR5/readme.md
@@ -0,0 +1 @@
+IGI-B-LR5-TEXT
diff --git a/STRWEB/LR1/readme.md b/STRWEB/LR1/readme.md
new file mode 100644
index 0000000..9ad20ec
--- /dev/null
+++ b/STRWEB/LR1/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR1-TEXT
diff --git a/STRWEB/LR2/readme.md b/STRWEB/LR2/readme.md
new file mode 100644
index 0000000..281b8cd
--- /dev/null
+++ b/STRWEB/LR2/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR2-TEXT
diff --git a/STRWEB/LR3/readme.md b/STRWEB/LR3/readme.md
new file mode 100644
index 0000000..965d373
--- /dev/null
+++ b/STRWEB/LR3/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR3-TEXT
diff --git a/STRWEB/LR4/readme.md b/STRWEB/LR4/readme.md
new file mode 100644
index 0000000..db054b3
--- /dev/null
+++ b/STRWEB/LR4/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR4-TEXT
diff --git a/STRWEB/STRWEB-B-txt.txt b/STRWEB/STRWEB-B-txt.txt
new file mode 100644
index 0000000..7737dc8
--- /dev/null
+++ b/STRWEB/STRWEB-B-txt.txt
```

```
@@ -0,0 +1 @@
+STRWEB-B-TXT
0f835f8 (STRWEB-B) STRWEB folder content added
diff --git a/STRWEB/LR1/readme.md b/STRWEB/LR1/readme.md
new file mode 100644
index 0000000..9ad20ec
--- /dev/null
+++ b/STRWEB/LR1/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR1-TEXT
diff --git a/STRWEB/LR2/readme.md b/STRWEB/LR2/readme.md
new file mode 100644
index 0000000..281b8cd
--- /dev/null
+++ b/STRWEB/LR2/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR2-TEXT
diff --git a/STRWEB/LR3/readme.md b/STRWEB/LR3/readme.md
new file mode 100644
index 0000000..965d373
--- /dev/null
+++ b/STRWEB/LR3/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR3-TEXT
diff --git a/STRWEB/LR4/readme.md b/STRWEB/LR4/readme.md
new file mode 100644
index 0000000..db054b3
--- /dev/null
+++ b/STRWEB/LR4/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR4-TEXT
57c198b (STRWEB-B-LR4) STRWEB-B-LR4 init
diff --git a/STRWEB/LR4/readme.md b/STRWEB/LR4/readme.md
new file mode 100644
index 0000000..db054b3
--- /dev/null
+++ b/STRWEB/LR4/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR4-TEXT
ab60efd (STRWEB-B-LR3) STRWEB-B-LR3 init
diff --git a/STRWEB/LR3/readme.md b/STRWEB/LR3/readme.md
new file mode 100644
index 0000000..965d373
--- /dev/null
+++ b/STRWEB/LR3/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR3-TEXT
a9160f0 (STRWEB-B-LR2) STRWEB-B-LR2 init
```

```
diff --git a/STRWEB/LR2/readme.md b/STRWEB/LR2/readme.md
new file mode 100644
index 000000..281b8cd
--- /dev/null
+++ b/STRWEB/LR2/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR2-TEXT
009867b (STRWEB-B-LR1) STRWEB-B-LR1 init
diff --git a/STRWEB/LR1/readme.md b/STRWEB/LR1/readme.md
new file mode 100644
index 000000..9ad20ec
--- /dev/null
+++ b/STRWEB/LR1/readme.md
@@ -0,0 +1 @@
+STRWEB-B-LR1-TEXT
860fef8 STRWEB-B init
diff --git a/STRWEB/STRWEB-B-txt.txt b/STRWEB/STRWEB-B-txt.txt
new file mode 100644
index 000000..7737dc8
--- /dev/null
+++ b/STRWEB/STRWEB-B-txt.txt
@@ -0,0 +1 @@
+STRWEB-B-TXT
15d87e9 (IGI-B) IGI folder content added
diff --git a/IGI/LR1/foo/775/init2.txt b/IGI/LR1/foo/775/init2.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/775/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/744/init2.txt b/IGI/LR1/foo/baz/744/init2.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/744/init2.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/baz/bin/777/init3.txt b/IGI/LR1/foo/baz/bin/777/init3.txt
new file mode 100644
index 000000..355ca10
--- /dev/null
+++ b/IGI/LR1/foo/baz/bin/777/init3.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR1/foo/example/555/init.txt b/IGI/LR1/foo/example/555/init.txt
new file mode 100644
index 000000..355ca10
```

```
--- /dev/null
+++ b/IGI/LR1/foo/example/555/init.txt
@@ -0,0 +1 @@
+Some text
diff --git a/IGI/LR2/readme.md b/IGI/LR2/readme.md
new file mode 100644
index 0000000..0c89ef1
--- /dev/null
+++ b/IGI/LR2/readme.md
@@ -0,0 +1 @@
+IGI-B-LR2-TEXT
diff --git a/IGI/LR3/readme.md b/IGI/LR3/readme.md
new file mode 100644
index 0000000..5b712f9
--- /dev/null
+++ b/IGI/LR3/readme.md
@@ -0,0 +1 @@
+IGI-B-LR3-TEXT
diff --git a/IGI/LR4/readme.md b/IGI/LR4/readme.md
new file mode 100644
index 0000000..e9bcaea
--- /dev/null
+++ b/IGI/LR4/readme.md
@@ -0,0 +1 @@
+IGI-B-LR4-TEXT
diff --git a/IGI/LR5/readme.md b/IGI/LR5/readme.md
new file mode 100644
index 0000000..1e66878
--- /dev/null
+++ b/IGI/LR5/readme.md
@@ -0,0 +1 @@
+IGI-B-LR5-TEXT
77ca0e7 (IGI-B-LR5) IGI-B-LR5 init
diff --git a/IGI/LR5/readme.md b/IGI/LR5/readme.md
new file mode 100644
index 0000000..1e66878
--- /dev/null
+++ b/IGI/LR5/readme.md
@@ -0,0 +1 @@
+IGI-B-LR5-TEXT
53c1864 (IGI-B-LR4) IGI-B-LR4 init
diff --git a/IGI/LR4/readme.md b/IGI/LR4/readme.md
new file mode 100644
index 0000000..e9bcaea
--- /dev/null
+++ b/IGI/LR4/readme.md
@@ -0,0 +1 @@
+IGI-B-LR4-TEXT
```

```
+++ b/IGI/LR1/foo/example/555/init.txt
@@ -0,0 +1 @@
+Some text
834f4c0 Add IGI-B-txt.txt
diff --git a/IGI/IGI-B-txt.txt b/IGI/IGI-B-txt.txt
new file mode 100644
index 0000000..1a96796
--- /dev/null
+++ b/IGI/IGI-B-txt.txt
@@ -0,0 +1 @@
+IGI-B-txt
0f7bf98 Add Main-txt.txt
0f7bf98 Add Main-txt.txt
diff --git a/Main-txt.txt b/Main-txt.txt
new file mode 100644
index 0000000..70b2669
--- /dev/null
+++ b/Main-txt.txt
@@ -0,0 +1 @@
+Main-txt
39b7e81 change in README.txt and test.txt
diff --git a/IGI/LR1/foo/baz/bin/foo/README.txt b/IGI/LR1/foo/baz/bin/foo/README.txt
index 4970e69..1409c41 100644
--- a/IGI/LR1/foo/baz/bin/foo/README.txt
+++ b/IGI/LR1/foo/baz/bin/foo/README.txt
@@ -1 +1 @@
-544
+544 some text
diff --git a/IGI/LR1/foo/baz/bin/foo/test.txt b/IGI/LR1/foo/baz/bin/foo/test.txt
index 5325a8d..7fd29f1 100644
--- a/IGI/LR1/foo/baz/bin/foo/test.txt
+++ b/IGI/LR1/foo/baz/bin/foo/test.txt
@@ -1 +1 @@
-001
+001 some text 2
diff --git a/IGI/LR1/geometric_lib b/IGI/LR1/geometric_lib
new file mode 160000
index 0000000..d078c8d
--- /dev/null
+++ b/IGI/LR1/geometric_lib
@@ -0,0 +1 @@
+Subproject commit d078c8d9ee6155f3cb0e577d28d337b791de28e2
3ed5e05 Rename readme.txt
diff --git a/IGI/LR1/foo/baz/bin/foo/readme.txt b/IGI/LR1/foo/baz/bin/foo/README.txt
similarity index 100%
rename from IGI/LR1/foo/baz/bin/foo/readme.txt
rename to IGI/LR1/foo/baz/bin/foo/README.txt
a56e4b6 changes in test.txt + readme.txt
```

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

```
C:\253502_Chertok_23>echo Номер Варианта : 23 > NomerVarianta.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    NomerVarianta.txt

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

C:\253502_Chertok_23>git add NomerVarianta.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   NomerVarianta.txt

C:\253502_Chertok_23>git commit -m "Add NomerVarianta.txt"
[253502_Chertok_23 2526512] Add NomerVarianta.txt
 1 file changed, 1 insertion(+)
 create mode 100644 NomerVarianta.txt

C:\253502_Chertok_23>git revert 2526512
[253502_Chertok_23 60c7819] Revert "Add NomerVarianta.txt"
 1 file changed, 1 deletion(-)
 delete mode 100644 NomerVarianta.txt
```

11) проиндексируйте файл в вашем Git-репозитории, затем отмените его индексацию

```
C:\253502_Chertok_23>echo More Some Text > 4k.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

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

C:\253502_Chertok_23>git add 4k.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   4k.txt

C:\253502_Chertok_23>git restore --staged 4k.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

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

12)внесите изменения в файл в вашем Git-репозитории и затем верните его в исходное состояние.

```
C:\253502_Chertok_23>echo More Some Text > 4l.txt
C:\253502_Chertok_23>git add 4l.txt
C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   4l.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

C:\253502_Chertok_23>git commit -m "Add file for 4.1 task"
[253502_Chertok_23 6bb3506] Add file for 4.1 task
  1 file changed, 1 insertion(+)
  create mode 100644 4l.txt

C:\253502_Chertok_23>echo Change > 4l.txt
C:\253502_Chertok_23>more 4l.txt
Change

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
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:   4l.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

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

C:\253502_Chertok_23>git restore 4l.txt
C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

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

C:\253502_Chertok_23>more 4l.txt
More Some Text
```

Задание 5. Выполните следующие действия с удаленным репозиторием:

1) создайте удаленный репозиторий (на [github.com](#))

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *



[kirillchertok](#)

Repository name *

IGI-LABS

IGI-LABS is available.

Great repository names are short and memorable. Need inspiration? How about [literate-succotash](#) ?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:



This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore



Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license



A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

You are creating a private repository in your personal account.

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

```
C:\253502_Chertok_23>git remote add origin https://github.com/kirillchertok/IGI-LABS.git

C:\253502_Chertok_23>git remote show origin
* remote origin
  Fetch URL: https://github.com/kirillchertok/IGI-LABS.git
  Push URL: https://github.com/kirillchertok/IGI-LABS.git
  HEAD branch: (unknown)

C:\253502_Chertok_23>git fetch origin

C:\253502_Chertok_23>git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/kirillchertok/IGI-LABS.git'

C:\253502_Chertok_23>git push origin 253502_Chertok_23
Enumerating objects: 69, done.
Counting objects: 100% (69/69), done.
Delta compression using up to 12 threads
Compressing objects: 100% (22/22), done.
Writing objects: 100% (69/69), 4.28 KiB | 626.00 KiB/s, done.
Total 69 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      253502_Chertok_23 -> 253502_Chertok_23

C:\253502_Chertok_23>git push origin IGI-B
Enumerating objects: 30, done.
Counting objects: 100% (30/30), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (24/24), 1.56 KiB | 1.56 MiB/s, done.
Total 24 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'IGI-B' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B -> IGI-B
```

```
C:\253502_Chertok_23>git push origin IGI-B-LR1
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 12 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (12/12), 860 bytes | 860.00 KiB/s, done.
Total 12 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'IGI-B-LR1' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B-LR1
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B-LR1 -> IGI-B-LR1

C:\253502_Chertok_23>git push origin IGI-B-LR2
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% (5/5), 451 bytes | 451.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'IGI-B-LR2' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B-LR2
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B-LR2 -> IGI-B-LR2

C:\253502_Chertok_23>git push origin IGI-B-LR3
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% (5/5), 411 bytes | 411.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'IGI-B-LR3' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B-LR3
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B-LR3 -> IGI-B-LR3
```

```
C:\253502_Chertok_23>git push origin IGI-B-LR4
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% (5/5), 414 bytes | 414.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'IGI-B-LR4' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B-LR4
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B-LR4 -> IGI-B-LR4

C:\253502_Chertok_23>git push origin IGI-B-LR5
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% (5/5), 413 bytes | 413.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'IGI-B-LR5' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/IGI-B-LR5
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      IGI-B-LR5 -> IGI-B-LR5

C:\253502_Chertok_23>git push origin STRWEB-B
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (15/15), 1.03 KiB | 1.03 MiB/s, done.
Total 15 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'STRWEB-B' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/STRWEB-B
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      STRWEB-B -> STRWEB-B
```

```
C:\253502_Chertok_23>git push origin STRWEB-B-LR1
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% (5/5), 413 bytes | 413.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'STRWEB-B-LR1' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/STRWEB-B-LR1
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      STRWEB-B-LR1 -> STRWEB-B-LR1

C:\253502_Chertok_23>git push origin STRWEB-B-LR2
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% (5/5), 438 bytes | 438.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'STRWEB-B-LR2' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/STRWEB-B-LR2
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      STRWEB-B-LR2 -> STRWEB-B-LR2

C:\253502_Chertok_23>git push origin STRWEB-B-LR3
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% (5/5), 462 bytes | 462.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'STRWEB-B-LR3' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/STRWEB-B-LR3
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      STRWEB-B-LR3 -> STRWEB-B-LR3
```

```
C:\253502_Chertok_23>git push origin STRWEB-B-LR4
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% (5/5), 400 bytes | 400.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'STRWEB-B-LR4' on GitHub by visiting:
remote:     https://github.com/kirillchertok/IGI-LABS/pull/new/STRWEB-B-LR4
remote:
To https://github.com/kirillchertok/IGI-LABS.git
 * [new branch]      STRWEB-B-LR4 -> STRWEB-B-LR4

C:\253502_Chertok_23>git remote show origin
* remote origin
  Fetch URL: https://github.com/kirillchertok/IGI-LABS.git
  Push URL: https://github.com/kirillchertok/IGI-LABS.git
  HEAD branch: 253502_Chertok_23
  Remote branches:
    253502_Chertok_23 tracked
    IGI-B tracked
    IGI-B-LR1 tracked
    IGI-B-LR2 tracked
    IGI-B-LR3 tracked
    IGI-B-LR4 tracked
    IGI-B-LR5 tracked
    STRWEB-B tracked
    STRWEB-B-LR1 tracked
    STRWEB-B-LR2 tracked
    STRWEB-B-LR3 tracked
    STRWEB-B-LR4 tracked
  Local refs configured for 'git push':
    253502_Chertok_23 pushes to 253502_Chertok_23 (up to date)
    IGI-B pushes to IGI-B (up to date)
    IGI-B-LR1 pushes to IGI-B-LR1 (up to date)
    IGI-B-LR2 pushes to IGI-B-LR2 (up to date)
    IGI-B-LR3 pushes to IGI-B-LR3 (up to date)
    IGI-B-LR4 pushes to IGI-B-LR4 (up to date)
    IGI-B-LR5 pushes to IGI-B-LR5 (up to date)
    STRWEB-B pushes to STRWEB-B (up to date)
    STRWEB-B-LR1 pushes to STRWEB-B-LR1 (up to date)
    STRWEB-B-LR2 pushes to STRWEB-B-LR2 (up to date)
    STRWEB-B-LR3 pushes to STRWEB-B-LR3 (up to date)
    STRWEB-B-LR4 pushes to STRWEB-B-LR4 (up to date)
```

3)измените несколько файлов в вашем проекте и перенесите их в удаленный репозиторий,

```
C:\253502_Chertok_23>echo CHANGE IN 4L > 4l.txt
C:\253502_Chertok_23>echo CHANGE IN 4K > 4k.txt

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
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:   4l.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    4k.txt

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

C:\253502_Chertok_23>git add 4k.txt

C:\253502_Chertok_23>echo CHANGE IN 4K 2> 4k.txt
CHANGE IN 4K

C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   4k.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:   4k.txt
      modified:   4l.txt

C:\253502_Chertok_23>git add *
C:\253502_Chertok_23>git status
On branch 253502_Chertok_23
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   4k.txt
    modified:   4l.txt

C:\253502_Chertok_23>git commit -m "Change in 4l.txt,4k.txt"
[253502_Chertok_23 a20eb98] Change in 4l.txt,4k.txt
  2 files changed, 1 insertion(+), 1 deletion(-)
  create mode 100644 4k.txt
```

```
C:\253502_Chertok_23>git push origin 253502_Chertok_23
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 394 bytes | 394.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/kirillchertok/IGI-LABS.git
  6bb3506..a20eb98  253502_Chertok_23 -> 253502_Chertok_23

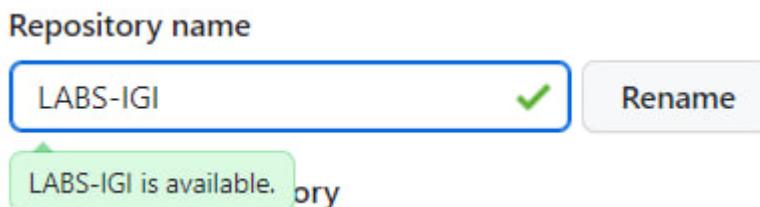
C:\253502_Chertok_23>git remote rename IGI-LABS LABS-IGI
error: No such remote: 'IGI-LABS'

C:\253502_Chertok_23>git remote remove origin

C:\253502_Chertok_23>git remote add origin https://github.com/kirillchertok/LABS-IGI.git

C:\253502_Chertok_23>git remote -v
origin  https://github.com/kirillchertok/LABS-IGI.git (fetch)
origin  https://github.com/kirillchertok/LABS-IGI.git (push)
```

4) переименуйте свой удаленный репозиторий



```
C:\253502_Chertok_23>git push origin 253502_Chertok_23
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 394 bytes | 394.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/kirillchertok/IGI-LABS.git
  6bb3506..a20eb98  253502_Chertok_23 -> 253502_Chertok_23

C:\253502_Chertok_23>git remote rename IGI-LABS LABS-IGI
error: No such remote: 'IGI-LABS'

C:\253502_Chertok_23>git remote remove origin

C:\253502_Chertok_23>git remote add origin https://github.com/kirillchertok/LABS-IGI.git

C:\253502_Chertok_23>git remote -v
origin  https://github.com/kirillchertok/LABS-IGI.git (fetch)
origin  https://github.com/kirillchertok/LABS-IGI.git (push)
```

```
C:\253502_Chertok_23>git remote show origin
* remote origin
  Fetch URL: https://github.com/kirillchertok/LABS-IGI.git
  Push URL: https://github.com/kirillchertok/LABS-IGI.git
  HEAD branch: 253502_Chertok_23
  Remote branches:
    253502_Chertok_23 new (next fetch will store in remotes/origin)
    IGI-B           new (next fetch will store in remotes/origin)
    IGI-B-LR1      new (next fetch will store in remotes/origin)
    IGI-B-LR2      new (next fetch will store in remotes/origin)
    IGI-B-LR3      new (next fetch will store in remotes/origin)
    IGI-B-LR4      new (next fetch will store in remotes/origin)
    IGI-B-LR5      new (next fetch will store in remotes/origin)
    STRWEB-B       new (next fetch will store in remotes/origin)
    STRWEB-B-LR1   new (next fetch will store in remotes/origin)
    STRWEB-B-LR2   new (next fetch will store in remotes/origin)
    STRWEB-B-LR3   new (next fetch will store in remotes/origin)
    STRWEB-B-LR4   new (next fetch will store in remotes/origin)
  Local refs configured for 'git push':
    253502_Chertok_23 pushes to 253502_Chertok_23 (up to date)
    IGI-B           pushes to IGI-B           (up to date)
    IGI-B-LR1      pushes to IGI-B-LR1      (up to date)
    IGI-B-LR2      pushes to IGI-B-LR2      (up to date)
    IGI-B-LR3      pushes to IGI-B-LR3      (up to date)
    IGI-B-LR4      pushes to IGI-B-LR4      (up to date)
    IGI-B-LR5      pushes to IGI-B-LR5      (up to date)
    STRWEB-B       pushes to STRWEB-B       (up to date)
    STRWEB-B-LR1   pushes to STRWEB-B-LR1   (up to date)
    STRWEB-B-LR2   pushes to STRWEB-B-LR2   (up to date)
    STRWEB-B-LR3   pushes to STRWEB-B-LR3   (up to date)
    STRWEB-B-LR4   pushes to STRWEB-B-LR4   (up to date)
```

5)получите данные из удаленного репозитория



newfile.txt

Create newfile.txt

now

```
C:\253502_Chertok_23>git pull origin 253502_Chertok_23
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 956 bytes | 106.00 KiB/s, done.
From https://github.com/kirillchertok/LABS-IGI
 * branch            253502_Chertok_23  -> FETCH_HEAD
 * [new branch]      253502_Chertok_23  -> origin/253502_Chertok_23
Updating a20eb98..fec9224
Fast-forward
  newfile.txt | 1 +
  1 file changed, 1 insertion(+)
  create mode 100644 newfile.txt

C:\253502_Chertok_23>tree /f
Структура папок
Серийный номер тома: EA83-85C8
C:.
    4k.txt
    4l.txt
    Main-txt.txt
    newfile.txt
```

6)посмотреть историю изменений

```
* commit fec92246ffa6a0c1f4d956c639aa7d8d12bf88d4 (origin/253502_Chertok_23)
| Author: kirillchertok <126002988+kirillchertok@users.noreply.github.com>
| Date:   Thu Feb 22 00:02:52 2024 +0300
|
|     Create newfile.txt
|
* commit a20eb9830dc52cca26e21d5f9ebc53d59ab7b821
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 23:53:17 2024 +0300
|
|     Change in 4l.txt,4k.txt
|
* commit 6bb35068111f52d84acc22ff546b80defadec744
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 22:48:02 2024 +0300
|
|     Add file for 4.l task
|
* commit 64f4b3e43839bbaa3f1817f3f6f1cdb92c721166
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 22:35:22 2024 +0300
|
|     Revert "Add test.txt with variant number"
|
|     This reverts commit adad7695414887962b9acc7afdb35e22372d68d9.
```

```
* commit adad7695414887962b9acc7afdb35e22372d68d9
  Author: kirillchertok <kirill250305@gmail.com>
  Date:   Wed Feb 21 22:34:40 2024 +0300

    Add test.txt with variant number

* commit 25fd495dc175075cb47c04e524c0a91515911aa3
  Author: kirillchertok <kirill250305@gmail.com>
  Date:   Wed Feb 21 15:04:33 2024 +0300

    Main folder with content from IGI an STRWEB added

* commit 0f835f8afb25c50c345cbba16a541dfb5d8019d5 (STRWEB-B)
  Author: kirillchertok <kirill250305@gmail.com>
  Date:   Wed Feb 21 15:02:01 2024 +0300

    STRWEB folder content added

* commit 57c198b630cf591c6512f388b8390151eb41fbb4 (STRWEB-B-LR4)
  Author: kirillchertok <kirill250305@gmail.com>
  Date:   Wed Feb 21 14:59:05 2024 +0300

    STRWEB-B-LR4 init

* commit ab60efdf9e57041a5b42202f1ed99de2fc5a177a (STRWEB-B-LR3)
  Author: kirillchertok <kirill250305@gmail.com>
  Date:   Wed Feb 21 14:58:13 2024 +0300

    STRWEB-B-LR3 init
```

```
| * commit a9160f09fca198b001e764fc9a52768888abea41 (STRWEB-B-LR2)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:56:59 2024 +0300
|
|     STRWEB-B-LR2 init
|
| * commit 009867b08528d3fe31d474404e96b9de5008e033 (STRWEB-B-LR1)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:55:59 2024 +0300
|
|     STRWEB-B-LR1 init
|
| * commit 860fef8bf1159d94a638aba5ba90c2d2cef60fa2
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:53:04 2024 +0300
|
|     STRWEB-B init
|
| * commit 15d87e9b881e01fd357b546b6f29a79f3127b50f (IGI-B)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:49:50 2024 +0300
|
|     IGI folder content added
|
| * commit 77ca0e7c2d330cfcdcb39900954b3967faff89d7 (IGI-B-LR5)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:46:13 2024 +0300
|
|     IGI-B-LR5 init
```

```
| * commit 53c18646848000b405624b71a88cb95a082333bd (IGI-B-LR4)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:45:15 2024 +0300
|
|     IGI-B-LR4 init
|
| * commit c5bf261d6a0ff6099d84731fe3845fc9749d1815 (IGI-B-LR3)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:44:17 2024 +0300
|
|     IGI-B-LR3 init
|
| * commit 36331cd0a1acbf396e7952b7bdee944dccbb74a9 (IGI-B-LR2)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:41:54 2024 +0300
|
|     IGI-B-LR2 init
|
| * commit d42464266685cb38547957bb072cea19fe7c9813 (IGI-B-LR1)
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:38:55 2024 +0300
|
|     IGI-B-LR1 init
|
| * commit 834f4c06d8c0eeefb746fce71f1a16e43c146f372
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:30:23 2024 +0300
|
|     Add IGI-B-txt.txt
```

```
* commit 0f7bf9821f67a0c03a9fb2fdab09ad5265fd5170
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:26:46 2024 +0300

|       Add Main-txt.txt

* commit 39b7e811b9f78f3335ea13de2c5803dc957cdec4
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Wed Feb 21 14:22:00 2024 +0300

|       change in README.txt and test.txt

* commit 3ed5e0578cc5caa8dcc74a2d9a7fbba5301d0e83
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Mon Feb 19 12:58:06 2024 +0300

|       Rename readme.txt

* commit a56e4b6218175821a1a853f069ecf5b98b7f798c
| Author: kirillchertok <kirill250305@gmail.com>
| Date:   Sun Feb 18 18:17:38 2024 +0300

|       changes in test.txt + readme.txt
(END)
```