

Министерство образования Республики Беларусь  
Учреждение образования «Белорусский государственный университет  
информатики и радиоэлектроники»

Факультет компьютерных систем и сетей  
Кафедра информатики  
Дисциплина «Объектно-ориентированное программирование»

## **ОТЧЕТ**

к лабораторной работе №1

на тему:

**«СИСТЕМА КОНТРОЛЯ ВЕРСИЙ GIT»**

БГУИР 1-40 04 01

Выполнил студент группы 253503  
ХОМИЧ Андрей Андреевич

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(дата, подпись студента)

Проверила  
ЖВАКИНА Анна Васильевна

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(дата, подпись преподавателя)

Минск 2023

**Цель работы:** Подготовить рабочее окружение в соответствии с типом операционной системы и создать структуру папок.

1. Выполнить базовую настройку:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ git config --global user.name "Khomitch Andrew"

HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ git config --global user.email khomitch.andrew@gmail.com
```

2. Создать структуру папок и поместить в репозиторий Git:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ mkdir 253503_KHOMITCH_27

HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ cd
Display all 67 possibilities? (y or n)

HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ cd 253503_KHOMITCH_27

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (main)
$ git init
Initialized empty Git repository in C:/Users/HPA/253503_KHOMITCH_27/.git/
```

253503_KHOMITCH_27	26/02/2024 02:35	Папка с файлами
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (main)		
\$ mkdir IGI STRWEB		
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (main)		
\$ cd IGI		
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/IGI (main)		
\$ mkdir LR1 LR2 LR3 LR4 LR5		
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/IGI (main)		
\$ cd ../STRWEB		
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/STRWEB (main)		
\$ mkdir LR1 LR2 LR3 LR4		
.git	26/02/2024 02:34	Папка с файлами
IGI	26/02/2024 02:36	Папка с файлами
STRWEB	26/02/2024 02:36	Папка с файлами
LR1	26/02/2024 02:36	Папка с файлами
LR2	26/02/2024 02:36	Папка с файлами
LR3	26/02/2024 02:36	Папка с файлами
LR4	26/02/2024 02:36	Папка с файлами
LR5	26/02/2024 02:36	Папка с файлами
LR1	26/02/2024 02:36	Папка с файлами
LR2	26/02/2024 02:36	Папка с файлами
LR3	26/02/2024 02:36	Папка с файлами
LR4	26/02/2024 02:36	Папка с файлами

3. Создать репозиторий внутри папки LR1 с помощью клонирования проекта с сайта github.com:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~ (main)
$ cd 253503_KHOMITCH_27

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (main)
$ cd IGI/LR1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (main)
$ 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 | 1.15 MiB/s, done.
Resolving deltas: 100% (6/6), done.
```

4. Выполнение следующих действий сопровождается проверкой состояния файлов в локальном репозитории до и после выполнения операций:

- a. Сделать индексацию нескольких файлов в репозитории Git:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (main)
$ cd geometric_lib

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git add circle.py square.py
```

- b. Внести изменения в файлы:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ echo "# Some changes" >> circle.py
```

```
import math

def area(r):
    return math.pi * r * r

def perimeter(r):
    return 2 * math.pi * r

# Some changes
```

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ echo "A = 0" >> square.py
```

```
1
2 def area(a):
3     return a * a
4
5
6 def perimeter(a):
7     return 4 * a
8 A = 0
9
```

с. Сделать коммиты к проиндексированному файлом:











```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git commit -a -m "Add changes to circle.py and square.py"
warning: in the working copy of 'circle.py', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'square.py', LF will be replaced by CRLF the next time Git touches it
[main 47aeb38] Add changes to circle.py and square.py
2 files changed, 2 insertions(+)
```

д. Добавить и удалить (файлы и группу файлов с определенным расширением):

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ touch file1.txt file2.py file3.txt file4.pdf file5.docx file6.xlsx









HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git add file1.txt file2.py file3.txt file4.pdf file5.docx file6.xlsx

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git commit -m "Add new files"
[main de22cf7] Add new files
6 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
create mode 100644 file2.py
create mode 100644 file3.txt
create mode 100644 file4.pdf
create mode 100644 file5.docx
create mode 100644 file6.xlsx
```

	.git	26/02/2024 03:10	Папка с файлами	
	docs	26/02/2024 02:49	Папка с файлами	
	circle.py	26/02/2024 03:04	Исходный файл ...	1 КБ
	file1.txt	26/02/2024 03:14	Текстовый докум...	0 КБ
	file2.py	26/02/2024 03:14	Исходный файл ...	0 КБ
	file3.txt	26/02/2024 03:14	Текстовый докум...	0 КБ
	file4.pdf	26/02/2024 03:14	Adobe Acrobat D...	0 КБ
	file5.docx	26/02/2024 03:14	Документ Micros...	0 КБ
	file6.xlsx	26/02/2024 03:14	Лист Microsoft Ex...	0 КБ
	square.py	26/02/2024 03:05	Исходный файл ...	1 КБ

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ find . -name "*.txt" -exec git rm {} \;
rm 'file1.txt'
rm 'file3.txt'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git commit -m "Remove all .txt files"
[main c126fad] Remove all .txt files
2 files changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 file1.txt
delete mode 100644 file3.txt
```

	.git	26/02/2024 03:22	Папка с файлами	
	docs	26/02/2024 02:49	Папка с файлами	
	circle.py	26/02/2024 03:04	Исходный файл ...	1 КБ
	file2.py	26/02/2024 03:14	Исходный файл ...	0 КБ
	file4.pdf	26/02/2024 03:14	Adobe Acrobat D...	0 КБ
	file5.docx	26/02/2024 03:14	Документ Micros...	0 КБ
	file6.xlsx	26/02/2024 03:14	Лист Microsoft Ex...	0 КБ
	square.py	26/02/2024 03:05	Исходный файл ...	1 КБ





```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ rm file4.pdf file2.py file5.docx file6.xlsx

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git rm file4.pdf file2.py file5.docx file6.xlsx
rm 'file2.py'
rm 'file4.pdf'
rm 'file5.docx'
rm 'file6.xlsx'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git commit -m "Remove files"
[main 5dd8295] Remove files
4 files changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 file2.py
delete mode 100644 file4.pdf
delete mode 100644 file5.docx
delete mode 100644 file6.xlsx

```

	.git	26/02/2024 03:29	Папка с файлами	
	docs	26/02/2024 02:49	Папка с файлами	
	circle.py	26/02/2024 03:04	Исходный файл ...	1 КБ
	square.py	26/02/2024 03:05	Исходный файл ...	1 КБ





е. Переименовать файлы:

```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git mv circle.py circle_renamed.py

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git commit -m "Renamed circle.py"
[main 10057d0] Renamed circle.py
1 file changed, 0 insertions(+), 0 deletions(-)
rename circle.py => circle_renamed.py (100%)

```

	.git	26/02/2024 03:32	Папка с файлами	
	docs	26/02/2024 02:49	Папка с файлами	
	circle_renamed.py	26/02/2024 03:04	Исходный файл ...	1 КБ
	square.py	26/02/2024 03:05	Исходный файл ...	1 КБ

ф. Создать для IGI и STRWEB, а также каждой LR, вложенной в них, отдельные ветки, переместить папки и файлы на соответствующие ветки:

```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (main)
$ git checkout -b "igi"
Switched to a new branch 'igi'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ git branch
* igi
  main

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ git status
On branch igi
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)

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ git add README.md

```

```

warning: in the working copy of 'IGI/README.md', LF will be replaced by CRLF the
next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ git status
On branch igi
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    LR1/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ git commit -m "igi-commit1"
[igi 3c20928] igi-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi)
$ cd LR1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi)
$ git checkout -b igi-LR1
Switched to a new branch 'igi-LR1'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ echo README.md
README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-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)

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git add README.md
warning: in the working copy of 'IGI/LR1/README.md', LF will be replaced by CRLF
the next time Git touches it

```

```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

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

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git commit -m "igi-LR1-commit1"
[igi-LR1 68a4724] igi-LR1-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR1/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git branch
  igi
* igi-LR1
  main
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR1)
$ cd LR2

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR1)
$ git checkout -b "igi-LR2"
Switched to a new branch 'igi-LR2'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR2)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR2)
$ git add README.md
warning: in the working copy of 'IGI/LR2/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR2)
$ git status
On branch igi-LR2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)

```



```

    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR2)
$ git commit -m "igi-LR2-commit1"
[igi-LR2 578df22] igi-LR2-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR2/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR2 (igi-LR2)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR2)
$ cd LR3

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR2)
$ git checkout -b "igi-LR3"
Switched to a new branch 'igi-LR3'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ scho > README.md
bash: scho: command not found

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ git add README.md
warning: in the working copy of 'IGI/LR3/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ git status
On branch igi-LR3
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ git commit -m "igi-LR3-commit1"
[igi-LR3 c21df46] igi-LR3-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR3/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR3 (igi-LR3)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR3)
$ cd LR4

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR3)
$ git checkout -b "igi-LR4"

```



```

Switched to a new branch 'igi-LR4'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR4)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR4)
$ git add README.md
warning: in the working copy of 'IGI/LR4/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR4)
$ git status
On branch igi-LR4
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR4)
$ git commit -m "igi-LR4-commit1"
[igi-LR4 cd82102] igi-LR4-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR4/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR4 (igi-LR4)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR4)
$ cd LR5

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR4)
$ git checkout -b "igi-LR5"
Switched to a new branch 'igi-LR5'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR5)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR5)
$ git add README.md
warning: in the working copy of 'IGI/LR5/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR5)
$ git status
On branch igi-LR5
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR5)
$ git commit -m "igi-LR5-commit1"
[igi-LR5 565fa38] igi-LR5-commit1
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR5/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR5 (igi-LR5)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR5)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi-LR5)
$ cd STRWEB

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (igi-LR5)
$ git checkout -b "strweb"
Switched to a new branch 'strweb'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb)

```

```

$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb)
$ git add README.md
warning: in the working copy of 'STRWEB/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb)
$ git status
On branch strweb
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../IGI/LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb)
$ git commit -m "strweb-commit1"
[strweb a36b265] strweb-commit1
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb)
$ cd LR1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb)
$ git checkout -b "strweb-LR1"
Switched to a new branch 'strweb-LR1'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb-LR1)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb-LR1)
$ git add README.md
warning: in the working copy of 'STRWEB/LR1/README.md', LF will be replaced by C
RLF the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb-LR1)
$ git status
On branch strweb-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../../IGI/LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb-LR1)
$ git commit -m "strweb-LR1-commit1"
[strweb-LR1 ec5c716] strweb-LR1-commit1
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/LR1/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR1 (strweb-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb-LR1)
$ cd LR2

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR1)
$ git checkout -b "strweb-LR2"
Switched to a new branch 'strweb-LR2'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR2)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR2)
$ git add README.md
warning: in the working copy of 'STRWEB/LR2/README.md', LF will be replaced by C
RLF the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR2)
$ git status

```

```

On branch strweb-LR2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../../IGI/LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR2)
$ git commit -m "strweb-LR2-commit1"
[strweb-LR2 2470477] strweb-LR2-commit1
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/LR2/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR2 (strweb-LR2)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb-LR2)
$ cd LR3

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR2)
$ git checkout -b "strweb-LR3"
Switched to a new branch 'strweb-LR3'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR3)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR3)
$ git add README.md
warning: in the working copy of 'STRWEB/LR3/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR3)
$ git status
On branch strweb-LR3
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../../IGI/LR1/geometric_lib/

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR3)
$ git commit -m "strweb-LR3-commit1"
[strweb-LR3 db16a86] strweb-LR3-commit1
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/LR3/README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR3 (strweb-LR3)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB (strweb-LR3)
$ cd LR4

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR4 (strweb-LR3)
$ git checkout -b "strweb-LR4"
Switched to a new branch 'strweb-LR4'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR4 (strweb-LR4)
$ echo > README.md

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR4 (strweb-LR4)
$ git add README.md
warning: in the working copy of 'STRWEB/LR4/README.md', LF will be replaced by CRLF
the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/STRWEB/LR4 (strweb-LR4)
$ git status
On branch strweb-LR4
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   README.md

Untracked files:

```

- g. 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)

```
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files

commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files
```

git log --since="2022-01-01" --until="2024-02-29" --author="Khomitch Andrew":

```

commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Remove files

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files

commit e404e6f84775b4d2995d3ade229ac57586214ea9
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:48:57 2024 +0300
: ...skipping...
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

```

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

Git log -p (diff каждого коммита):

```

commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

diff --git a/circle.py b/circle_renamed.py
similarity index 100%
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

diff --git a/circle.py b/circle_renamed.py
similarity index 100%
rename from circle.py
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

diff --git a/circle.py b/circle_renamed.py
similarity index 100%
rename from circle.py
rename to circle_renamed.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

```

```

commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB_LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

diff --git a/circle.py b/circle_renamed.py
similarity index 100%
rename from circle.py
rename to circle_renamed.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

diff --git a/file2.py b/file2.py
deleted file mode 100644
index e69de29..0000000
diff --git a/file4.pdf b/file4.pdf
deleted file mode 100644
index e69de29..0000000
diff --git a/file5.docx b/file5.docx
deleted file mode 100644
index e69de29..0000000
<C:\Users\HPA\AppData\Local\Temp/git-blob-a05112/file5.docx> does not seem to be a docx file!
diff --git a/file6.xlsx b/file6.xlsx
deleted file mode 100644
index e69de29..0000000
...skipping...
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB_LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB_LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

diff --git a/circle.py b/circle_renamed.py
similarity index 100%
rename from circle.py
rename to circle_renamed.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

diff --git a/file2.py b/file2.py
deleted file mode 100644
index e69de29..0000000
diff --git a/file4.pdf b/file4.pdf
deleted file mode 100644
index e69de29..0000000
diff --git a/file5.docx b/file5.docx
deleted file mode 100644
index e69de29..0000000
<C:\Users\HPA\AppData\Local\Temp/git-blob-a05112/file5.docx> does not seem to be a docx file!
diff --git a/file6.xlsx b/file6.xlsx
deleted file mode 100644
index e69de29..0000000

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

diff --git a/file1.txt b/file1.txt
deleted file mode 100644

```

```

commit f8425d86d2d63979ae6b467c799c98f9344a2c60 (HEAD -> IGI, main, STRWEB)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 13:12:40 2024 +0300

    Add file3.txt

diff --git a/IGI/LR1/file3.txt b/IGI/LR1/file3.txt
new file mode 100644
index 0000000..e69de29

commit 06b22bb0429eb8789d94f57c1e2710093852029f
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 13:05:25 2024 +0300

    Delete geometric_lib

diff --git a/IGI/LR1/geometric_lib b/IGI/LR1/geometric_lib
deleted file mode 160000
:....skipping...
commit f8425d86d2d63979ae6b467c799c98f9344a2c60 (HEAD -> IGI, main, STRWEB)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 13:12:40 2024 +0300

    Add file3.txt

diff --git a/IGI/LR1/file3.txt b/IGI/LR1/file3.txt
new file mode 100644
index 0000000..e69de29

commit 06b22bb0429eb8789d94f57c1e2710093852029f
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 13:05:25 2024 +0300

    Delete geometric_lib

diff --git a/IGI/LR1/geometric_lib b/IGI/LR1/geometric_lib
deleted file mode 160000

index f4c1147..0000000
--- a/IGI/LR1/geometric_lib
+++ /dev/null
@@ -1,0,0 @@
-subproject commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc

commit 106faa09d7bbf1d97a658526f0747606ddd652ce
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 12:58:20 2024 +0300

    committed another files

diff --git a/IGI/LR1/testfile.txt b/IGI/LR1/testfile.txt
new file mode 100644
index 0000000..e69de29

commit 19689528df4cd340d727ad15e03152001db03164
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Mon Mar 11 03:47:51 2024 +0300

```



Git log --stat (статистика изменений):

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lr1b (main)
$ git log --stat
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

    circle.py => circle_renamed.py | 0
    1 file changed, 0 insertions(+), 0 deletions(-)

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

    file2.py | 0
    file4.pdf | 0
    file5.docx | 0
    file6.xlsx | 0
    4 files changed, 0 insertions(+), 0 deletions(-)

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

    file1.txt | 0
    file3.txt | 0
    2 files changed, 0 insertions(+), 0 deletions(-)

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files

    file1.txt | 0
```

git log --name-only (только имена измененных файлов):

```
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

    circle_renamed.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

    file2.py
    file4.pdf
    file5.docx
    file6.xlsx

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

    file1.txt
    file3.txt

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files

    file1.txt
    file2.py
    file3.txt
    file4.pdf
    file5.docx
    file6.xlsx
```

Git log --relative-date:

```
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: 11 days ago

    Renamed circle.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: 11 days ago

    Remove files

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: 11 days ago

    Remove all .txt files

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: 11 days ago

    Add new files

commit e404e6f84775b4d2995d3ade229ac57586214ea9
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: 11 days ago

    Add changes to circle.py and qsquare.py
```

Git log --pretty=short:

```
commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4, STRWEB_LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

    Renamed circle.py

commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

    Remove files

commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

    Remove all .txt files

commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

    Add new files

commit e404e6f84775b4d2995d3ade229ac57586214ea9
Author: Khomitch Andrew <khomitch.andrew@gmail.com>

    Add changes to circle.py and qsquare.py
```

Git log --graph:

```
* commit f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc (HEAD -> main, STRWEB_LR4,
LR3, STRWEB_LR2, STRWEB_LR1, STRWEB, LR5, LR4, LR3, LR2, LR1, IGI)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:56:14 2024 +0300

    Renamed circle.py

* commit 9e10608516bc29581e3aa6d6fef11cb8ada93d58
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:55:27 2024 +0300

    Remove files

* commit dca7d8aa1eeb3ffea96f0d1fb89c53b579e27025
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:53:31 2024 +0300

    Remove all .txt files

* commit a62044c95a3a535b9796754d86b7f9543ae33c3c
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:51:03 2024 +0300

    Add new files

* commit e404e6f84775b4d2995d3ade229ac57586214ea9
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Thu Feb 29 15:48:57 2024 +0300

    Add changes to circle.py and qsquare.py
```

i. найдите разницу в изменениях для каждого коммита:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (main)
$ git diff f4c1147e49b518d73b84fba8b6dc1b4bcb0e32bc 9e10608516bc29581e3aa6d6fef11cb8ada93d58
diff --git a/circle_renamed.py b/circle.py
similarity index 100%
rename from circle_renamed.py
rename to circle.py
```

j. создайте новый файл test.txt и вставьте в него строку 'номер варианта':

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ echo '27' > test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git add test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git commit -m "Add new file test.txt"
[LR1 f357fcb] Add new file test.txt
1 file changed, 1 insertion(+)
create mode 100644 test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git reset --soft HEAD^
```



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

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ echo 'changed content' >> new_file

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git status
On branch LR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file.txt
        new_file
        test.txt

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

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git add new_file
warning: in the working copy of 'new_file', LF will be replaced by CRLF the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git status
On branch LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_file

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

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ echo 'changed content' >> new_file

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git status
On branch LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_file

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:   new_file

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

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git reset --mixed

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/geometric_lib (LR1)
$ git status
On branch LR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file.txt
        new_file
        test.txt

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

5. Работа с удаленным репозиторием:
  - a. Создать удаленный репозиторий на github:
  - b. Просмотрите информацию о нем, внесите изменения и опять просмотрите:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git remote add Labs_IGI https://github.com/Homa665/Labs_IGI

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git remote
Labs_IGI

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git fetch Labs_IGI
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 867 bytes | 54.00 KiB/s, done.
From https://github.com/Homa665/Labs_IGI
 * [new branch]      main      -> Labs_IGI/main

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git remote show Labs_IGI
* remote Labs_IGI
Fetch URL: https://github.com/Homa665/Labs_IGI
Push URL: https://github.com/Homa665/Labs_IGI
HEAD branch: main
Remote branch:
  main tracked
Local ref configured for 'git push':
  main pushes to main (local out of date)
```

- c. Измените несколько файлов в вашем проекте и перенесите их в удаленный репозиторий:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-LR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file.txt
    new_file

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

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git add .
warning: in the working copy of 'IGI/LR1/file.txt', LF will be replaced by CRLF the next time
Git touches it
warning: in the working copy of 'IGI/LR1/new_file', LF will be replaced by CRLF the next time
Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt
    new file:   new_file

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git commit -m "committed another files"
[igi-LR1 1759c3a] committed another files
2 files changed, 3 insertions(+)
create mode 100644 IGI/LR1/file.txt
create mode 100644 IGI/LR1/new_file
```

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-LR1
nothing to commit, working tree clean

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi-LR1)
$ git checkout igi
Switched to branch 'igi'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 448 bytes | 448.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'igi' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/igi
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi -> igi

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi-LR1
Enumerating objects: 23, done.
Counting objects: 100% (23/23), done.
Delta compression using up to 8 threads
Compressing objects: 100% (17/17), done.
Writing objects: 100% (21/21), 1.75 KiB | 597.00 KiB/s, done.
```



```
Total 21 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
remote:
remote: Create a pull request for 'igi-LR1' on GitHub by visiting:
remote:      https://github.com/Homa665/Labs_IGI/pull/new/igi-LR1
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi-LR1 -> igi-LR1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi-LR2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 356 bytes | 356.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'igi-LR2' on GitHub by visiting:
remote:      https://github.com/Homa665/Labs_IGI/pull/new/igi-LR2
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi-LR2 -> igi-LR2

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi-LR3
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'igi-LR3' on GitHub by visiting:
remote:      https://github.com/Homa665/Labs_IGI/pull/new/igi-LR3
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi-LR3 -> igi-LR3
```

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi-LR4
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'igi-LR4' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/igi-LR4
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi-LR4 -> igi-LR4

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI igi-LR5
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 315 bytes | 315.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'igi-LR5' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/igi-LR5
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      igi-LR5 -> igi-LR5

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI strweb
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
```

```

Writing objects: 100% (3/3), 347 bytes | 347.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'strweb' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/strweb
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      strweb -> strweb

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI strweb-LR1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 330 bytes | 330.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'strweb-LR1' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/strweb-LR1
remote:
To https://github.com/Homa665/Labs_IGI
 * [new branch]      strweb-LR1 -> strweb-LR1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI strweb-LR2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 336 bytes | 336.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'strweb-LR2' on GitHub by visiting:
remote:   https://github.com/Homa665/Labs_IGI/pull/new/strweb-LR2
remote:
To https://github.com/Homa665/Labs_IGI

```

```

* [new branch]      strweb-LR2 -> strweb-LR2

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI strweb-LR3
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 292 bytes | 292.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'strweb-LR3' on GitHub by visiting:
remote:      https://github.com/Homa665/Labs_IGI/pull/new/strweb-LR3
remote:
To https://github.com/Homa665/Labs_IGI
* [new branch]      strweb-LR3 -> strweb-LR3

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git push Labs_IGI strweb-LR4
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 291 bytes | 291.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'strweb-LR4' on GitHub by visiting:
remote:      https://github.com/Homa665/Labs_IGI/pull/new/strweb-LR4
remote:
To https://github.com/Homa665/Labs_IGI
* [new branch]      strweb-LR4 -> strweb-LR4

```

d. Переименуйте свой удаленный репозиторий:

```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git remote rename Labs_IGI IGI_Labs
Renaming remote references: 100% (12/12), done.

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git remote
IGI_Labs

```

е. Получите данные из удаленного репозитория:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git pull IGI_Labs igi-LR1
From https://github.com/Homa665/Labs_IGI
 * branch          igi-LR1      -> FETCH_HEAD
Updating 3c20928..1759c3a
Fast-forward
 IGI/LR1/README.md      | 1 +
 IGI/LR1/file.txt       | 1 +
 IGI/LR1/geometric_lib/docs/README.md | 10 ++++++++
 IGI/LR1/geometric_lib/file1.txt      | 0
 IGI/LR1/new_file       | 2 ++
 IGI/LR1/test.txt       | 1 +
6 files changed, 15 insertions(+)
create mode 100644 IGI/LR1/README.md
create mode 100644 IGI/LR1/file.txt
create mode 100644 IGI/LR1/geometric_lib/docs/README.md
create mode 100644 IGI/LR1/geometric_lib/file1.txt
create mode 100644 IGI/LR1/new_file
create mode 100644 IGI/LR1/test.txt
```

ф. Просмотрите историю изменений:

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git log
commit 1759c3a3ae810e54d7696448a884edf6367a00c7 (HEAD -> igi, IGI_Labs/igi-LR1, igi-LR1)
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Tue Mar 12 22:05:26 2024 +0300

    committed another files

commit ff4c0Feb15844959553438abeab3838ca525d685
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Tue Mar 12 21:54:36 2024 +0300

    commit test.txt

commit a9b9e891311d7687d7a4a071a2a942fb3655ac57
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Tue Mar 12 21:38:10 2024 +0300

    add geometric_lib in LR1

commit 68a47249858ad484e77ad31725f2cfe73916d8ad
Author: Khomitch Andrew <khomitch.andrew@gmail.com>
Date: Tue Mar 12 21:18:49 2024 +0300

    igi-LR1-commit1

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi)
$ git checkout igi-LR2
Switched to branch 'igi-LR2'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (igi-LR2)
$ git checkout strweb
Switched to branch 'strweb'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (strweb)
$ git checkout strweb-LR1
Switched to branch 'strweb-LR1'
```

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (strweb-LR1)
$ git checkout strweb-LR4
Switched to branch 'strweb-LR4'

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27 (strweb-LR4)
$ git checkout main
Switched to branch 'main'
```

Индивидуальное задание:

27.	/
	--bar/705
	--bin/700
	--echo/555
	--readme.txt/40
	--baz/644
	--example/222
	--foo/233
	--test.txt/007

```
HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ mkdir bar

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ cd bar

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ mkdir 705

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ mkdir bin

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ cd bin

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin (igi-LR1)
$ mkdir 700

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin (igi-LR1)
$ mkdir echo

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin (igi-LR1)
$ cd echo

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin/echo (igi-LR1)
$ mkdir 55

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin/echo (igi-LR1)
$ rmdir /s /q 55
rmdir: failed to remove '/s': No such file or directory
rmdir: failed to remove '/q': No such file or directory

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin/echo (igi-LR1)
$ cd 55
bash: cd: 55: No such file or directory
```



```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin/echo (igi-LR1)
$ mkdir 555

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin/echo (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin (igi-LR1)
$ echo 40 > readme.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/bin (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ mkdir baz

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ cd baz

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz (igi-LR1)
$ mkdir 644

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz (igi-LR1)
$ mkdir example

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz (igi-LR1)
$ cd example

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz/example (igi-LR1)
$ mkdir 222

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz/example (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar/baz (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/bar (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ mkdir foo

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ cd foo

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/foo (igi-LR1)
$ mkdir 233

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/foo (igi-LR1)
$ echo 007 > test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/foo (igi-LR1)
$ git add .
warning: in the working copy of 'IGI/LR1/foo/test.txt', LF will be replaced
with CRLF the next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/foo (igi-LR1)
$ git status
On branch igi-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   test.txt

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

```



```

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1/foo (igi-LR1)
$ cd ..

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git add .
warning: in the working copy of 'IGI/LR1/bar/bin/readme.txt', LF will be
next time Git touches it

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git status
On branch igi-LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   bar/bin/readme.txt
    new file:   foo/test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git commit -m "add individual task"
[igi-LR1 d3d7eff] add individual task
2 files changed, 2 insertions(+)
 create mode 100644 IGI/LR1/bar/bin/readme.txt
 create mode 100644 IGI/LR1/foo/test.txt

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git push IGI_Labs
fatal: The current branch igi-LR1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream IGI_Labs igi-LR1

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

HPA@DESKTOP-6E4SCR9 MINGW64 ~/253503_KHOMITCH_27/IGI/LR1 (igi-LR1)
$ git push IGI_Labs igi-LR1
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (9/9), 609 bytes | 609.00 KiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Homa665/Labs_IGI
  1759c3a..d3d7eff  igi-LR1 -> igi-LR1

```