## Отчёт по лабораторной работе №1 по дисциплине избранные главы информатики.

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## Задание:

- 1. Подготовьте рабочее окружение в соответствии с типом вашей операционной системы:
  - а. Установите Git

sudo apt install git

b. Выполните базовую настройку

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ git config --global user.name "
Stas Bekarev"
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ git config --global user.email
"bekarevstanislav@gmail.com"
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ git config --global user.defaul
tBranch "master"
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ git config --global init.defaul
tBranch "master"
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ git config --global --list
user.email=bekarevstanislav@gmail.com
user.defaultbranch=master
user.name=Stas Bekarev
init.defaultbranch=master
```

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

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ mkdir 253505 Bekarev 3
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~$ cd ~/253505 Bekarev 3
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ mkdir IGI
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ mkdir STRWEB
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git init
Initialized empty Git repository in /home/sluma/253505 Bekarev 3/.git/
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505 Bekarev 3$ cd IGI
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ mkdir LR1
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ mkdir LR2
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ mkdir LR3
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ mkdir LR4
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ mkdir LR5
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ cd ~/25350
5 Bekarev 3/STRWEB
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ mkdir L
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ mkdir L
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ mkdir L
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ mkdir L
```

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

```
(https://github.com/smartigaorg/geometric lib)
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git cl one "https://github.com/smartiqaorg/geometric_lib"
Cloning into 'geometric_lib'...
remote: Enumerating objects: 35, done.
remote: Total 35 (delta 0), reused 0 (delta 0), pack-reused 35
Receiving objects: 100% (35/35), 4.60 KiB | 4.60 MiB/s, done.
Resolving deltas: 100% (6/6), done.
```

- 4. Выполните следующие действия, каждый раз проверяя состояние файлов в локальном репозитории до и после выполнения операции:
  - а. сделайте индексацию нескольких файлов в вашем Git-репозитории (git add ...),

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ touch text1.txt sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ touch binary1.bin sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ad d -A
```

b. внесите изменения в файлы,

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ echo "
text in text1" >> text1.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ echo "
text in binary1" >> binary1.bin
```

с. выполните коммиты к проиндексированным файлам,

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ad d --all sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git commit -m "First commit" [master (root-commit) 10cb52a] First commit 3 files changed, 3 insertions(+) create mode 100644 IGI/LR1/binary1.bin create mode 160000 IGI/LR1/geometric_lib create mode 100644 IGI/LR1/text1.txt
```

d. добавьте и удалите файлы (один и группу файлов с определенным расширением)

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ touch text2.txt sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ touch binary2.bin sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ rm bin ary1.bin sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ rm *.t xt
```

е. переименуйте файлы

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ mv bin ary2.bin survivebinary.bin ___
```

f. создайте для IGI и STRWEB, а также для каждой ЛР, вложенной в них, <u>отдельные ветки</u>, переместите папки и файлы на соответствующие ветки

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git branch IGI
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git checkout I
GI
Switched to branch 'IGI'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ cd IGI
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ echo "IGI"
>> README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ git add -A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ git commit
-m "IGI commit"
[IGI fce939c] IGI commit
1 file changed, 1 insertion(+)
create mode 100644 IGI/README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI$ git checko
ut master
Switched to branch 'master'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ cd ~/253505 Be
karev 3/STRWEB
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ git bra
nch STRWEB
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ git che
ckout STRWEB
Switched to branch 'STRWEB'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ echo "S
TRWEB" >> README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ git add
- A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ git com
mit -m "STRWEB commit"
[STRWEB ce107dd] STRWEB commit
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB$ git che
ckout master
Switched to branch 'master'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ git
checkout STRWEB
Switched to branch 'STRWEB'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ git
branch STRWEB LR1
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ git
checkout STRWEB LR1
Switched to branch 'STRWEB LR1'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ ech
o "STRWEB_LR1" >> README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ git
add -A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR1$ git
commit -m "STRWEB_LR1 commit"
[STRWEB LR1 b2db2a2] STRWEB LR1 commit
1 file changed, 1 insertion(+)
create mode 100644 STRWEB/LR1/README.md
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR4$ git
checkout IGI
Switched to branch 'IGI'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/STRWEB/LR4$ cd
~/253505_Bekarev_3/IGI/LR1
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git br
anch IGI LR1
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ch
eckout IGI LR1
Switched to branch 'IGI LR1'
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ echo "
IGI_LR1" >> README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ad
d -A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git co
mmit -m "IGI_LR1 commit"
[IGI LR1 af326ba] IGI LR1 commit
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR1/README.md
```

g. 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/,

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --all
--decorate --graph --branches --oneline
* 010bd3f (IGI_LR5) IGI_LR4 commit
* 458013d (IGI_LR4) IGI_LR4 commit
1/
* 8426444 (IGI LR3) IGI LR3 commit
1/
| * 15a73e2 (IGI_LR2) IGI_LR2 commit
1/
 * af326ba (IGI_LR1) IGI_LR1 commit
* fce939c (IGI) IGI commit
* 8af68c0 (STRWEB_LR4) STRWEB_LR4 commit
| | * dd81bf5 (STRWEB_LR3) STRWEB_LR3 commit
| * 5a4f09a (STRWEB_LR2) STRWEB LR2 commit
1 1/
| | * b2db2a2 (STRWEB_LR1) STRWEB LR1 commit
 1/
* ce107dd (STRWEB) STRWEB commit
* 7330948 (HEAD -> master) main
* 10cb52a First commit
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log -2
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI_LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:04:41 2024 +0300
Date:
   IGI commit
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --afte
r="2024-02-15 19:30:00"
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date: Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --unti
l="2024-02-15 19:30:00"
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date: Thu Feb 15 19:04:41 2024 +0300
   IGI commit
commit 733094885cc8c95e51267fe5b9a0f30d3e54cc59 (master)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date: Thu Feb 15 19:01:39 2024 +0300
   main
commit 10cb52ac56bbce9b7cad16dd20fdff46fdb138e2
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 18:51:55 2024 +0300
   First commit
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --grep
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date:
       Thu Feb 15 19:04:41 2024 +0300
   IGI commit
commit 10cb52ac56bbce9b7cad16dd20fdff46fdb138e2
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date: Thu Feb 15 18:51:55 2024 +0300
   First commit
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log -p --o
neline -2
458013d (HEAD -> IGI_LR4) IGI_LR4 commit
diff --git a/IGI/LR4/README.md b/IGI/LR4/README.md
new file mode 100644
index 0000000..7912cf7
--- /dev/null
+++ b/IGI/LR4/README.md
@@ -0,0 +1 @@
+IGI LR4
fce939c (IGI) IGI commit
diff --git a/IGI/README.md b/IGI/README.md
new file mode 100644
index 0000000..0642b3b
--- /dev/null
+++ b/IGI/README.md
00 - 0, 0 + 1 00
+IGI
             h. исследуйте флаги для git log: p, stat, shortstat, name-only, name-status,
                relative-date, pretty, graph,
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --pret
ty=format: "%h-%an"
458013d-Stas Bekarev
fce939c-Stas Bekarev
7330948-Stas Bekarev
10cb52a-Stas Bekarev
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git diff IGI..
IGI LR4
diff --git a/IGI/LR4/README.md b/IGI/LR4/README.md
new file mode 100644
index 0000000..7912cf7
--- /dev/null
+++ b/IGI/LR4/README.md
@@ -0,0 +1 @@
+IGI_LR4
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --stat
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
    IGI_LR4 commit
IGI/LR4/README.md | 1 +
 1 file changed, 1 insertion(+)
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
        Thu Feb 15 19:04:41 2024 +0300
Date:
    IGI commit
 IGI/README.md | 1 +
 1 file changed, 1 insertion(+)
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --shor
tstat -2
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI_LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
1 file changed, 1 insertion(+)
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:04:41 2024 +0300
   IGI commit
1 file changed, 1 insertion(+)
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --name
-only -2
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI_LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
IGI/LR4/README.md
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:04:41 2024 +0300
   IGI commit
IGI/README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --name
-status -2
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI_LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       Thu Feb 15 19:51:15 2024 +0300
   IGI LR4 commit
       IGI/LR4/README.md
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
Date:
       Thu Feb 15 19:04:41 2024 +0300
   IGI commit
       IGI/README.md
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git log --rela
tive-date -2
commit 458013daad8d7279b54670ca66e345f80e9f4652 (HEAD -> IGI_LR4)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       2 hours ago
   IGI LR4 commit
commit fce939c6a1bbbe5b867cb6650c4e7deb1e69bab2 (IGI)
Author: Stas Bekarev <bekarevstanislav@gmail.com>
       2 hours ago
Date:
   IGI commit
            і. найдите разницу в изменениях для каждого коммита
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git diff IGI...
IGI LR4
diff --git a/IGI/LR4/README.md b/IGI/LR4/README.md
new file mode 100644
index 0000000..7912cf7
--- /dev/null
+++ b/IGI/LR4/README.md
@@ -0,0 +1 @@
+IGI LR4
            j. создайте новый файл test.txt и вставьте в него строчку 'номер
                варианта'. затем сделайте коммит и отмените его
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ echo "
number of variant: 3" >> test.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ad
d -A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git co
mmit -m "IGI_LR1 test.txt"
[IGI_LR1 089aa92] IGI_LR1 test.txt
1 file changed, 1 insertion(+)
create mode 100644 IGI/LR1/test.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git re
set HEAD~
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git st
atus
On branch IGI LR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test.txt
nothing added to commit but untracked files present (use "git add" to track)
            k. проиндексируйте файл в вашем Git-репозитории, затем отмените его
                индексацию
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ad
d "test.txt"
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git st
atus
On branch IGI LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file:
                  test.txt
```

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

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git st
atus
On branch IGI_LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file: test.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ echo "
mama lubit papu" >> test.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git st
atus
On branch IGI_LR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:
                  test.txt
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
       modified:
                  test.txt
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3/IGI/LR1$ git ch
eckout -- test.txt
```

- 5. Выполните следующие действия с удаленным репозиторием:
  - а. создайте удаленный репозиторий (на github.com)

sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505\_Bekarev\_3\$ git remote add
origin https://github.com/StanislavSluma/IGI.git

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git push -u or
igin --all
Username for 'https://github.com': StanislavSluma
Password for 'https://StanislavSluma@github.com':
Enumerating objects: 43, done.
Counting objects: 100% (43/43), done.
Delta compression using up to 16 threads
Compressing objects: 100% (23/23), done.
Writing objects: 100% (39/39), 2.58 KiB | 882.00 KiB/s, done.
Total 39 (delta 9), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/StanislavSluma/IGI.git
                     IGI_LR3 -> IGI_LR3
 * [new branch]
 * [new branch]
                     IGI_LR4 -> IGI_LR4
 * [new branch]
                   IGI_LR5 -> IGI_LR5
 * [new branch]
                    STRWEB -> STRWEB
 * [new branch]
                    STRWEB_LR1 -> STRWEB_LR1
 * [new branch]
                    STRWEB LR2 -> STRWEB LR2
                  STRWEB_LR3 -> STRWEB_LR3
 * [new branch]
 * [new branch]
                    STRWEB_LR4 -> STRWEB_LR4
branch 'IGI' set up to track 'origin/IGI'.
branch 'IGI_LR1' set up to track 'origin/IGI_LR1'. branch 'IGI_LR2' set up to track 'origin/IGI_LR2'.
branch 'master' set up to track 'origin/master'.
branch 'IGI_LR3' set up to track 'origin/IGI_LR3'.
branch 'IGI_LR4' set up to track 'origin/IGI_LR4'.
branch 'IGI_LR5' set up to track 'origin/IGI_LR5'.
branch 'STRWEB' set up to track 'origin/STRWEB'.
branch 'STRWEB_LR1' set up to track 'origin/STRWEB_LR1'.
branch 'STRWEB_LR2' set up to track 'origin/STRWEB_LR2'.
branch 'STRWEB LR3' set up to track 'origin/STRWEB LR3'.
branch 'STRWEB_LR4' set up to track 'origin/STRWEB_LR4'.

    просмотрите информацию о нем, внесите изменения и опять

                просмотрите (remote, fetch).
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git pull
Updating 7330948..45ae76b
Fast-forward
README.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$
```

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git remote sho
w origin
* remote origin
  Fetch URL: https://github.com/StanislavSluma/IGI.git
  Push URL: https://github.com/StanislavSluma/IGI.git
  HEAD branch: master
  Remote branches:
   TGT
              tracked
    IGI LR1
              tracked
   IGI_LR2
             tracked
            tracked
   IGI_LR3
             tracked
   IGI_LR4
   IGI_LR5
            tracked
    STRWEB
             tracked
    STRWEB_LR1 tracked
    STRWEB LR2 tracked
    STRWEB LR3 tracked
    STRWEB_LR4 tracked
   master
              tracked
  Local branches configured for 'git pull':
             merges with remote IGI
    IGI
    IGI LR1
              merges with remote IGI LR1
```

с. измените несколько файлов в вашем проекте и перенесите их в удаленный репозиторий,

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505 Bekarev 3$ echo "It is ju
st change" >> README.md
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505 Bekarev 3$ git add -A
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git commit -m
"change README"
[master 752f396] change README
 1 file changed, 1 insertion(+)
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git push origi
Username for 'https://github.com': StanislavSluma
Password for 'https://StanislavSluma@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/StanislavSluma/IGI.git
   45ae76b..752f396 master -> master
            d. переименуйте свой удаленный репозиторий
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git remote ren
ame origin new origin
Renaming remote references: 100% (12/12), done.
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git remote
new origin
```

е. получите данные из удаленного репозитория

```
sluma@sluma-ASUS-TUF-Dash-F15-FX517ZE-FX517ZE:~/253505_Bekarev_3$ git remote sho
w origin
* remote origin
 Fetch URL: https://github.com/StanislavSluma/IGI.git
  Push URL: https://github.com/StanislavSluma/IGI.git
 HEAD branch: master
 Remote branches:
   IGI
             tracked
   IGI LR1
              tracked
           tracked
   IGI_LR2
           tracked
   IGI_LR3
   IGI_LR4 tracked
   IGI_LR5 tracked
   STRWEB tracked
   STRWEB_LR1 tracked
   STRWEB LR2 tracked
   STRWEB_LR3 tracked
   STRWEB_LR4 tracked
   master tracked
  Local branches configured for 'git pull':
            merges with remote IGI
    IGI
    IGI LR1
              merges with remote IGI_LR1
```

## f. просмотреть историю изменений

Индивидуальное задание:

```
3. /
|--bar/755
| `--baz/744
| |--readme.txt/544
| `--example/255
`--foo/711
|--test.txt/000
`--bin/766
`--touch/777
```