Лабораторная работа №1
«СИСТЕМА КОНТРОЛЯ ВЕРСИЙ»

```
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » touch t1.txt t2.txt          dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git status                   dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        t1.txt
        t2.txt

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

~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git add *.txt                dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git status                   dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   t1.txt
        new file:   t2.txt

~/Code/353501_SNESAR_23/STRWEB » cd ..                                               dmitry@AVB

~/Code/353501_SNESAR_23 » tree                                                       dmitry@AVB
.
├── IGI
│   ├── LR1
│   ├── LR2
│   ├── LR3
│   ├── LR4
│   └── LR5
└── STRWEB
    ├── LR1
    ├── LR2
    ├── LR3
    └── LR4

12 directories, 0 files
```

```
~/Code/353501_SNESAR_23/IGI/LR1 » git clone https://github.com/smartiqaorg/geometric_lib
Cloning into 'geometric_lib'...
remote: Enumerating objects: 35, done.
remote: Total 35 (delta 0), reused 0 (delta 0), pack-reused 35 (from 1)
Receiving objects: 100% (35/35), 4.60 KiB | 4.60 MiB/s, done.
Resolving deltas: 100% (6/ ), done.
```

```
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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

no changes added to commit (use "git add" and/or "git commit -a")
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git add circle.py square.py
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   circle.py
        modified:   square.py

--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git commit -m "changed files"
[main 6307e60] changed files
 2 files changed, 2 insertions(+), 2 deletions(-)
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » touch t1.txt t2.txt       dmitry@AVB
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        t1.txt
        t2.txt

nothing added to commit but untracked files present (use "git add" to track)
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git add *.txt          dmitry@AVB
--------------------------------------------------------------------------------
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git status          dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   t1.txt
        new file:   t2.txt
```

```
~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main*) » git rm -f *.txt        dmitry@AVB
rm 't1.txt'
rm 't2.txt'

~/Code/353501_SNESAR_23/IGI/LR1/geometric_lib (main) » git status              dmitry@AVB
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
Switched to a new branch 'strweb-lr4'

~/Code/353501_SNESAR_23/STRWEB/LR4 (strweb-lr4*) » echo > readme.md           dmitry@AVB

~/Code/353501_SNESAR_23/STRWEB/LR4 (strweb-lr4*) » git add readme.md          dmitry@AVB

~/Code/353501_SNESAR_23/STRWEB/LR4 (strweb-lr4*) » git commit "commit-strweb-lr4"
error: pathspec 'commit-strweb-lr4' did not match any file(s) known to git

~/Code/353501_SNESAR_23/STRWEB/LR4 (strweb-lr4*) » git commit -m  "commit-strweb-l
r4"
[strweb-lr4 c91d865] commit-strweb-lr4
 1 file changed, 1 insertion(+)
 create mode 100644 STRWEB/LR4/readme.md

~/Code/353501_SNESAR_23/STRWEB/LR4 (strweb-lr4*) » cd ..                       dmitry@AVB

~/Code/353501_SNESAR_23/STRWEB (strweb-lr4*) » cd ..                           dmitry@AVB

~/Code/353501_SNESAR_23 (strweb-lr4*) » git checkout master                    dmitry@AVB
Switched to branch 'master'

~/Code/353501_SNESAR_23 (master*) » git branch                                dmitry@AVB

  igi
  igi-lr1
  igi-lr2
  igi-lr3
  igi-lr4
  igi-lr5
* master
  strweb
  strweb-lr1
  strweb-lr2
  strweb-lr3
  strweb-lr4
```

```
~/Code/353501_SNESAR_23 (master*) » git branch -v                    1 ↵ dmitry@AVB

  igi        85ff2a5 commit-igi
  igi-lr1    4317978 commit-igi-lr1
  igi-lr2    221952b commit-igi-lr2
  igi-lr3    52c3b07 commit-igi-lr3
  igi-lr4    e2ddbbd commit-igi-lr4
  igi-lr5    b2f6df6 commit-igi-lr5
* master     224c8b5 commit-main
  strweb     1fdf92e commit-strweb
  strweb-lr1 f14b021 commit-strweb-lr1
  strweb-lr2 7f43e97 commit-strweb-lr2
  strweb-lr3 1474b86 commit-strweb-lr3
  strweb-lr4 c91d865 commit-strweb-lr4
```

```
commit 224c8b569aadeca373316b3fab191d5c5b5a94fa (HEAD -> master)
Author: 1ncrease <dmitrysnesar9@gmail.com>
Date:   Fri Feb 21 00:00:53 2025 +0300

    commit-main

diff --git a/readme.md b/readme.md
new file mode 100644
index 0000000..8b13789
--- /dev/null
+++ b/readme.md
@@ -0,0 +1 @@
+
```

```
commit 224c8b569aadeca373316b3fab191d5c5b5a94fa (HEAD -> master)
Author: 1ncrease <dmitrysnesar9@gmail.com>
Date:   Fri Feb 21 00:00:53 2025 +0300

    commit-main

 readme.md | 1 +
 1 file changed, 1 insertion(+)
```

```
commit 224c8b569aadeca373316b3fab191d5c5b5a94fa (HEAD -> master)
Author: 1ncrease <dmitrysnesar9@gmail.com>
Date:   Fri Feb 21 00:00:53 2025 +0300

    commit-main

 1 file changed, 1 insertion(+)
```

```
commit 224c8b569aadeca373316b3fab191d5c5b5a94fa (HEAD -> master)
Author: 1ncrease <dmitrysnesar9@gmail.com>
Date:   Fri Feb 21 00:00:53 2025 +0300

    commit-main

readme.md
```

```
* commit 224c8b569aadeca373316b3fab191d5c5b5a94fa (HEAD -> master)
  Author: 1ncrease <dmitrysnesar9@gmail.com>
  Date:   Fri Feb 21 00:00:53 2025 +0300

      commit-main
```

```
~/Code/353501_SNESAR_23 (master*) » git log -p              dmitry@AVB

~/Code/353501_SNESAR_23 (master*) » git log --stat          dmitry@AVB

~/Code/353501_SNESAR_23 (master*) » git log --shortstat     dmitry@AVB

~/Code/353501_SNESAR_23 (master*) » git log --name-only     dmitry@AVB

~/Code/353501_SNESAR_23 (master*) » git log --graph         dmitry@AVB
```

```
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log                    dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log --grep "commit"     dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log --since="2025-02-19"

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log -1                  dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log --until="2025-02-19"

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log --before="2025-02-19"

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git log --after="2025-02-19"
```

```
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
(END)
```

```
  GNU nano 8.3          /home/dmitry/Code/353501_SNESAR_23/.git/COMMIT_EDITMSG          Modified
Revert "added variant"

This reverts commit d44a9227c5db0e0bcc0b202f6bc55db15bd7836d.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch igi-lr1
# Changes to be committed:
#       deleted:    IGI/LR1/test.txt
#
```

```
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » echo > f.txt                    dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1*) » git add f.txt                   dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1*) » git status                      dmitry@AVB
On branch igi-lr1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   f.txt


~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1*) » git restore --staged f.txt      dmitry@AVB

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1*) » git status                      dmitry@AVB
On branch igi-lr1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        f.txt

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

```
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git remote show origin           dmitry@AVB
* remote origin
  Fetch URL: https://github.com/1ncrease0/IGI.git
  Push  URL: https://github.com/1ncrease0/IGI.git
  HEAD branch: main
  Remote branch:
    main new (next fetch will store in remotes/origin)


~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git fetch origin                 dmitry@AVB
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 863 bytes | 863.00 KiB/s, done.
From https://github.com/1ncrease0/IGI
 * [new branch]      main       -> origin/main


~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » []                               dmitry@AVB
```

```
origin  git@github.com:1ncrease0/IGI.git (push)
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git push origin igi-lr1        dmitry@AVB
Enumerating objects: 28, done.
Counting objects: 100% (28/28), done.
Delta compression using up to 16 threads
Compressing objects: 100% (23/23), done.
Writing objects: 100% (28/28), 2.44 KiB | 831.00 KiB/s, done.
Total 28 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), done.
remote:
remote: Create a pull request for 'igi-lr1' on GitHub by visiting:
remote:        https://github.com/1ncrease0/IGI/pull/new/igi-lr1
remote:
To github.com:1ncrease0/IGI.git
 * [new branch]      igi-lr1 -> igi-lr1

~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » □                              dmitry@AVB
```

```
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git remote rename origin IGI_LABS
Renaming remote references: 100% (4/4), done.
```

```
~/Code/353501_SNESAR_23/IGI/LR1 (igi-lr1) » git pull IGI_LABS igi-lr1
From github.com:1ncrease0/IGI
 * branch            igi-lr1    -> FETCH_HEAD
Already up to date.
```