

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

Факультет компьютерных систем и сетей  
Кафедра Информатики  
Дисциплина «Избранные главы информатики»

**ОТЧЕТ**  
к лабораторной работе №1  
на тему:  
**«СИСТЕМА КОНТРОЛЯ ВЕРСИЙ GIT»**  
БГУИР 6-05-0612-02

Выполнил студент группы 353504  
ГОРДАШУК Владислав Сергеевич

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(дата, подпись студента)

Проверил  
Жвакина Анна Васильевна

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(дата, подпись преподавателя)

Минск 2024

```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem
$ mkdir 353504_GORDASHUK_07

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem
$ cd 353504_GORDASHUK_07

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07
$ mkdir IGI STRWEB

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07
$ cd IGI

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI
$ mkdir LR1 LR2 LR3 LR4 LR5

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI
$ cd ..

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07
$ cd STRWEB

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/STRWEB
$ mkdir LR1 LR2 LR3 LR4

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/STRWEB
$ cd ..

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07
$ git init
Initialized empty Git repository in c:/4sem/353504_GORDASHUK_07/.git/

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07 (main)
$ cd IGI

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI (main)
$ cd LR1

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ 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 | 470.00 KiB/s, done.
Resolving deltas: 100% (6/6), done.

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file.txt
        new file:   file2.txt
        new file:   file3.bin
        new file:   file4.tzt
        new file:   file5.txt
        new file:   geometric_lib

```

```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ echo text > file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file.txt
        new file:   file2.txt
        new file:   file3.bin
        new file:   file4.tzt
        new file:   file5.txt
        new file:   geometric_lib

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:   file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git commit -m "First commit"
[main (root-commit) bac442e] First commit
6 files changed, 2 insertions(+)
create mode 100644 IGI/LR1/file.txt
create mode 100644 IGI/LR1/file2.txt
create mode 100644 IGI/LR1/file3.bin
create mode 100644 IGI/LR1/file4.tzt
create mode 100644 IGI/LR1/file5.txt
create mode 160000 IGI/LR1/geometric_lib

```

```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git rm file4.tzt
rm 'IGI/LR1/file4.tzt'

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git rm file3.bin
rm 'IGI/LR1/file3.bin'

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git rm *.txt
rm 'IGI/LR1/file.txt'
rm 'IGI/LR1/file2.txt'
rm 'IGI/LR1/file5.txt'

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    file.txt
        deleted:    file2.txt
        deleted:    file3.bin
        deleted:    file4.tzt
        deleted:    file5.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git commit -m "Delete files"
[main 3d8269d] Delete files
5 files changed, 1 deletion(-)
delete mode 100644 IGI/LR1/file.txt
delete mode 100644 IGI/LR1/file2.txt
delete mode 100644 IGI/LR1/file3.bin
delete mode 100644 IGI/LR1/file4.tzt
delete mode 100644 IGI/LR1/file5.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git mv file.txt newfile.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:   file.txt -> newfile.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git commit -m "Rename file"
[main 9702437] Rename file
1 file changed, 0 insertions(+), 0 deletions(-)
rename IGI/LR1/{file.txt => newfile.txt} (100%)

```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git branch
  IGI
  ILR1
  ILR2
  ILR3
  ILR4
  ILR5
  SLR1
  SLR2
  SLR3
  SLR4
  SLR5
  STRWEB
* main
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/STRWEB (main)
$ git log
commit 3d3f81a5bfe756751b670f655d2415d68d1f0edb (HEAD -> main)
Author: Vlad <v.gordashuk@mail.ru>
Date:   Wed Feb 26 21:50:18 2025 +0300
```

Add files

```
commit 9702437628b4a22057cad8364b962dd96bf90fcd
Author: Vlad <v.gordashuk@mail.ru>
Date:   Wed Feb 26 21:41:45 2025 +0300
```

Rename file

```
commit 818229877dfc0d94d008a98caef6f01be9187cc6
Author: Vlad <v.gordashuk@mail.ru>
Date:   Wed Feb 26 21:40:49 2025 +0300
```

Add file

```
commit 3d8269d508f4ddbeb1665dae6b37dfbbceb95ff6
Author: Vlad <v.gordashuk@mail.ru>
Date:   Wed Feb 26 21:39:50 2025 +0300
```

Delete files

```
commit bac442e98609e85c707ebcedbaad808c14164ebc
Author: Vlad <v.gordashuk@mail.ru>
Date:   Wed Feb 26 21:37:47 2025 +0300
```

First commit

```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ touch file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git add file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git status
On branch ILR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git restore --staged file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git status
On branch ILR1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file.txt

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

```

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```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ echo t > file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git status
On branch ILR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.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:   file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git restore file.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (ILR1)
$ git status
On branch ILR1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt

```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/remote/353504_GORDASHUK_07 (main)
$ git add file.txt
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/remote/353504_GORDASHUK_07 (main)
$ git commit -m "First"
[main (root-commit) e1761d8] First
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file.txt
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/remote/353504_GORDASHUK_07 (main)
$ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 205 bytes | 102.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Vlad2990/353504_GORDASHUK_07.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07 (main)
$ git branch -r
origin/IGI
origin/ILR1
origin/ILR2
origin/ILR3
origin/ILR4
origin/ILR5
origin/SLR1
origin/SLR2
origin/SLR3
origin/SLR4
origin/STRWEB
origin/main
target/IGI
target/ILR1
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git remote add origin https://github.com/Vlad2990/353504_GORDASHUK_07.git
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git remote -v
origin https://github.com/Vlad2990/353504_GORDASHUK_07.git (fetch)
origin https://github.com/Vlad2990/353504_GORDASHUK_07.git (push)
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git remote rename origin origin2
```

```
Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (main)
$ git remote -v
origin2 https://github.com/Vlad2990/353504_GORDASHUK_07.git (fetch)
origin2 https://github.com/Vlad2990/353504_GORDASHUK_07.git (push)
```

```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add1)
$ git status
on branch add1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file1.txt
    new file:   file2.txt

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

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add1)
$ git rm file1.txt
rm 'IGI/LR1/file1.txt'

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add1)
$ git status
on branch add1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file2.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add1)
$ git commit -m "Add and remove"
[add1 3b9b2dc] Add and remove
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 IGI/LR1/file2.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add1)
$ git push -u origin2 add1
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 376 bytes | 376.00 KiB/s, done.
Total 4 (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 'add1' on GitHub by visiting:
remote:   https://github.com/Vlad2990/353504_GORDASHUK_07/pull/new/add1
remote:
To https://github.com/Vlad2990/353504_GORDASHUK_07.git
 * [new branch]      add1 -> add1
branch 'add1' set up to track 'origin2/add1'.

```



```

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add2)
$ git status
on branch add2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file1.txt

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add2)
$ git push -u origin add2
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add2)
$ git push -u origin2 add2
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'add2' on GitHub by visiting:
remote:   https://github.com/Vlad2990/353504_GORDASHUK_07/pull/new/add2
remote:
To https://github.com/Vlad2990/353504_GORDASHUK_07.git
 * [new branch]      add2 -> add2
branch 'add2' set up to track 'origin2/add2'.

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add2)
$ git push origin --delete add2
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

Vlad@DESKTOP-C0VQJJP MINGW64 /c/4sem/353504_GORDASHUK_07/IGI/LR1 (add2)
$ git push origin2 --delete add2
To https://github.com/Vlad2990/353504_GORDASHUK_07.git
 - [deleted]          add2

```