

**МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ**

**Федеральное государственное автономное образовательное  
учреждение высшего образования «СЕВЕРО-КАВКАЗСКИЙ  
ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ»**

**Кафедра Программная инженерия**

**Отчет по лабораторной работе № 2  
по дисциплине «Основы Программной инженерии»**

Выполнил студент группы ПИЖ-Б-  
О-21-

1

Шарипков Иван. « 9 » сентября  
2022г.

Подпись студента \_\_\_\_\_

Работа защищена «

» \_\_\_\_\_ 20\_\_ г.

Ставрополь 2022

```
Command Prompt - git log

commit 6600b0bffc97e961c5e5c596712664fb9cdf1d79 (HEAD -> main, origin/main, origin/HEAD)
Merge: deb71ba af36d6a
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Sat Sep 10 11:59:50 2022 +0300

    Merge branch 'main' of https://github.com/krutozavr1/University

commit deb71badb9779ef284dea7e6e0468e54b55ed2b2
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Fri Sep 9 21:49:05 2022 +0300

    final report

commit af36d6a05851437c027b9b5ccce8ff6397257d97
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Fri Sep 9 21:49:05 2022 +0300

    final report

commit 3c4f41555475900572e0bdba59c0934632961ab6
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Fri Sep 9 21:44:44 2022 +0300

    final changes

commit 1618ab8ccb9a0fd5d0b4c0ab1d71af10a19f2b6a
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Fri Sep 9 21:38:28 2022 +0300

    .
```

Рисунок 1 – git log

```
Command Prompt

    changed README file

commit 1f77778eb5726f6efce91a53746ab249bb042de2
Author: Иван <ivannsharipkov@gmail.com>
Date: Sat Sep 3 18:39:15 2022 +0930

    Update README.md

commit 3a1134c6cf360cb030b63f888c6c1f157ac8543c
Author: Иван <ivannsharipkov@gmail.com>
Date: Sat Sep 3 18:32:05 2022 +0930

    Initial commit

C:\Users\User\University>git log --graph --pretty=oneline -- abbrev-commit

C:\Users\User\University>git log --pretty=oneline:%s
oneline:Merge branch 'main' of https://github.com/krutozavr1/University
oneline:final report
oneline:final report
oneline:final changes
oneline:added otchet
oneline:hello world on python
oneline:created python project
oneline:changed README file
oneline:Update README.md
oneline:Initial commit

C:\Users\User\University>
```

Рисунок 2 – git log pretty=oneline:%s

```
Command Prompt
commit 3a1134c6cf360cb030b63f888c6c1f157ac8543c
Author: Иван <ivannsharipkov@gmail.com>
Date: Sat Sep 3 18:32:05 2022 +0930

Initial commit

C:\Users\User\University>git log --graph --pretty=oneline -- abbrev-commit

C:\Users\User\University>git log --pretty=oneline:%s
oneline:Merge branch 'main' of https://github.com/krutozavr1/University
oneline:final report
oneline:final report
oneline:final changes
oneline:added otchet
oneline:hello world on python
oneline:created python project
oneline:changed README file
oneline:Update README.md
oneline:Initial commit

C:\Users\User\University>git show HEAD
commit 6600b0bffc97e961c5e5c596712664fb9cdf1d79 (HEAD -> main, origin/main, origin/HEAD)
Merge: deb71ba af36d6a
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Sat Sep 10 11:59:50 2022 +0300

Merge branch 'main' of https://github.com/krutozavr1/University

C:\Users\User\University>
```

Рисунок 3 – git show HEAD

```
Command Prompt - git show HEAD~1

C:\Users\User\University>git show HEAD~1
commit deb71badb9779ef284dea7e6e0468e54b55ed2b2
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date: Fri Sep 9 21:49:05 2022 +0300

final report

diff --git a/README.md b/README.md
index a3206c0..33f45ab 100644
--- a/README.md
+++ b/README.md
@@ -1,2 +1,2 @@
-## Шарипков Иван
-### Пиж-Б-0-21-1
+### Пиж-Б-0-21-1
diff --git "a/doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf" "b/doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
similarity index 66%
rename from "doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf"
rename to "doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
index 6cf4032..1a15d47 100644
--- "a/doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf"
+++ "b/doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
@@ -1,5 +1,5 @@
МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
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РОССИЙСКОЙ ФЕДЕРАЦИИ
```

Рисунок 4 – git show HEAD~1

```
Command Prompt - git show af36d6a
образовательное учреждение высшего образования

C:\Users\User\University>git show af36d6a
commit af36d6a05851437c027b9b5ccce8ff6397257d97
Author: krutozavr1 <ivannsharipkov@gmail.com>
Date:   Fri Sep 9 21:49:05 2022 +0300

    final report

diff --git "a/doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf" "b/doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
similarity index 66%
rename from "doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf"
rename to "doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
index 6cf4032..1a15d47 100644
--- "a/doc/\320\276\321\202\321\207\320\265\321\2021 (pdf.io).pdf"
+++ "b/doc/\320\276\321\202\321\207\320\265\321\2021.pdf"
@@ -1,5 +1,5 @@
     МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
     РОССИЙСКОЙ ФЕДЕРАЦИИ
+    РОССИЙСКОЙ ФЕДЕРАЦИИ

     Федеральное государственное автономное
     образовательное учреждение высшего образования
@@ -18,4 +18,8 @@
                                     » _____ 20__ г.

                                     Ставрополь 2022

\ No newline at end of file
```

Рисунок 5 – git show af36d6a

```
Command Prompt

M      progForGit/.vs/ProjectEvaluation/progforgit.projects.v5.1
M      progForGit/.vs/progForGit/DesignTimeBuild/.dtbcache.v2
M      progForGit/.vs/progForGit/v17/.suo
M      progForGit/Program.cs

C:\Users\User\University>git checkout - progForGit/Program.cs
error: pathspec '-' did not match any file(s) known to git

C:\Users\User\University>git checkout -- progForGit/Program.cs

C:\Users\User\University>git status
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:   progForGit/.vs/ProjectEvaluation/progforgit.projects.v5.1
    modified:   progForGit/.vs/ProjectEvaluation/progforgit.projects.v5.1
    modified:   progForGit/.vs/progForGit/DesignTimeBuild/.dtbcache.v2
    modified:   progForGit/.vs/progForGit/v17/.suo

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

no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\User\University>
```

Рисунок 6 – отмена изменений в файле с помощью git checkout

```
Command Prompt
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:   progForGit/.vs/ProjectEvaluation/progforgit.metadata.v5.1
        modified:   progForGit/.vs/ProjectEvaluation/progforgit.projects.v5.1
        modified:   progForGit/.vs/progForGit/DesignTimeBuild/.dtbcache.v2
        modified:   progForGit/.vs/progForGit/v17/.suo

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

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

C:\Users\User\University>git add .

C:\Users\User\University>git commit -m"commit to use git reset"
[main a3162b6] commit to use git reset
 7 files changed, 1 insertion(+), 1 deletion(-)
 create mode 100644 progForGit/.vs/progForGit/FileContentIndex/e7d84017-087e-4636-8593-2174e9572ead.vsidx
 create mode 100644 progForGit/.vs/progForGit/FileContentIndex/read.lock
 rewrite progForGit/.vs/progForGit/v17/.suo (73%)

C:\Users\User\University>git reset --hard HEAD~1
HEAD is now at 88055be added c# file

C:\Users\User\University>
```

Рисунок 7 – отмена коммита в файле с помощью git reset

```
Select Command Prompt
Microsoft Windows [Version 10.0.19043.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>cd University

C:\Users\User\University>git tag

C:\Users\User\University>git tag -a v2.0 -m "finishing lr2"

C:\Users\User\University>git tag
v2.0

C:\Users\User\University>
```

Рисунок 8 – Создание аннотированного тега

```
Select Command Prompt
Microsoft Windows [Version 10.0.19043.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>cd University

C:\Users\User\University>git tag

C:\Users\User\University>git tag -a v2.0 -m "finishing lr2"

C:\Users\User\University>git tag
v2.0

C:\Users\User\University>git push origin v2.0
Enumerating objects: 120, done.
Counting objects: 100% (120/120), done.
Delta compression using up to 4 threads
Compressing objects: 100% (105/105), done.
Writing objects: 100% (120/120), 1.06 MiB | 1.04 MiB/s, done.
Total 120 (delta 30), reused 6 (delta 1), pack-reused 0
remote: Resolving deltas: 100% (30/30), done.
To https://github.com/krutozavr1/University.git
 * [new tag]          v2.0 -> v2.0

C:\Users\User\University>
```

Рисунок 9 – Пуш тега в удаленный репозиторий

```
Select Command Prompt

C:\Users\User>cd University

C:\Users\User\University>git tag

C:\Users\User\University>git tag -a v2.0 -m "finishing lr2"

C:\Users\User\University>git tag
v2.0

C:\Users\User\University>git push origin v2.0
Enumerating objects: 120, done.
Counting objects: 100% (120/120), done.
Delta compression using up to 4 threads
Compressing objects: 100% (105/105), done.
Writing objects: 100% (120/120), 1.06 MiB | 1.04 MiB/s, done.
Total 120 (delta 30), reused 6 (delta 1), pack-reused 0
remote: Resolving deltas: 100% (30/30), done.
To https://github.com/krutozavr1/University.git
 * [new tag]          v2.0 -> v2.0

C:\Users\User\University>git tag -d v2.0
Deleted tag 'v2.0' (was aeacab8)

C:\Users\User\University>git push origin --delete v2.0
To https://github.com/krutozavr1/University.git
 - [deleted]          v2.0

C:\Users\User\University>
```

Рисунок 10 – Удаление тега из репозитория