Федеральное государственное бюджетное образовательное учреждение высшего образования «Национальный исследовательский университет «МЭИ»

Институт информационных и вычислительных технологий

Кафедра Управления и интеллектуальных технологий

**Отчёт по лабораторной работе № 2**

# По курсу «Разработка ПО систем управления»

# «Система контроля версий Git»

# Выполнил студент группы А-02-19

# Сонин А. В.

# Проверили

# Мохов А. С.

# Козлюк Д. А.

Москва 2020

# Цель работы

1. Знать понятия и компоненты систем контроля версий (СКВ), порядок и приемы работы с ними.
2. Уметь участвовать в командной разработке, используя конкретную СКВ — Git, а также популярный хостинг репозитариев — GitHub.

***Отчет Алиса:***

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02

$ mkdir alice

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02

$ mkdir bob

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02

$ cd alice

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice

$ mkdir project

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice

$ cd project

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project

$ cd ..

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice

$ cd project

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project

$ git init ***-инициализация git***

Initialized empty Git repository in C:/Users/Admin\_2019/Desktop/lab02ect/.git/

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (maste

$ gitconfig user.name 'Alice (SoninAV)'

bash: gitconfig: command not found

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git config user.name 'Alice (SoninAV)'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git config user.email 'alice@example.com'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master *–находимся на ветке master*

No commits yet *-нет созданных коммитов*

Untracked files: *-не отслеживаемые файлы*

(use "git add <file>..." to include in what will be committed)

bin/

main.cpp

obj/

project.cbp

project.layout

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: main.cpp *–добавлен файл main.cpp*

Untracked files:

(use "git add <file>..." to include in what will be committed)

bin/

obj/

project.cbp

project.layout

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code: заготовка программы'

[master (root-commit) 9ceb763] code: заготовка программы

1 file changed, 10 insertions(+)

create mode 100644 main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add project.cbp

warning: LF will be replaced by CRLF in project.cbp.

The file will have its original line endings in your working directory

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'build:добавлен файл проекта'

[master b97ed90] build:добавлен файл проекта

1 file changed, 43 insertions(+)

create mode 100644 project.cbp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

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: main.cpp *–файл main.cpp изменён*

Untracked files:

(use "git add <file>..." to include in what will be committed)

bin/

obj/

project.layout

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code: ввод чисел'

[master 3076c51] code: ввод чисел

1 file changed, 3 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add -u

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code: сумма чисел'

[master 2f68062] code: сумма чисел

1 file changed, 1 insertion(+)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + разность чисел'

[master c20f4c8] code: + разность чисел

1 file changed, 2 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

obj/

project.depend

project.layout

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

project.depend

project.layout

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add .gitignore

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'git: игнорирование побочных файлов'

[master 9413319] git: игнорирование побочных файлов

1 file changed, 4 insertions(+)

create mode 100644 .gitignore

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

commit 2f680625e18262d59cbb06dc75b8dbaaf9d74fd9

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:31:50 2020 +0300

code: сумма чисел

commit 3076c51b1c6456edfe5c1839699fac86482cd193

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:24:22 2020 +0300

code: ввод чисел

commit b97ed900871e385023b3d5ef4c6a73b3a2d2d1af

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:09:17 2020 +0300

build:добавлен файл проекта

commit 9ceb7636a3647ca2c3995081c212fa6d98a2b9c7

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:03:43 2020 +0300

code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --stat

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов *-комментарий к этому коммиту*

.gitignore | 4 ++++ *-в файле 4 новых строки*

1 file changed, 4 insertions(+) *-один файл закоммитчен и в нём 4 новых строки кода*

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

main.cpp | 3 ++-

1 file changed, 2 insertions(+), 1 deletion(-)

commit 2f680625e18262d59cbb06dc75b8dbaaf9d74fd9

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:31:50 2020 +0300

code: сумма чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline –decorate *-показывает коммиту кратко по короткому хэшу без даты и автора*

9413319 (HEAD -> master) git: игнорирование побочных файлов

c20f4c8 code: + разность чисел

2f68062 code: сумма чисел

3076c51 code: ввод чисел

b97ed90 build:добавлен файл проекта

9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ $ git log --oneline --decorate --all --graph

bash: $: command not found

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph

\* 9413319 (HEAD -> master) git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел *-команда выводит коммиты также как в прошлом случае но с*

\* b97ed90 build:добавлен файл проекта *декорацией в виде звёздочек*

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log -- main.cpp

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

commit 2f680625e18262d59cbb06dc75b8dbaaf9d74fd9

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:31:50 2020 +0300

code: сумма чисел

commit 3076c51b1c6456edfe5c1839699fac86482cd193

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:24:22 2020 +0300

code: ввод чисел

commit 9ceb7636a3647ca2c3995081c212fa6d98a2b9c7

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:03:43 2020 +0300

code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --grep "code:"

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

commit 2f680625e18262d59cbb06dc75b8dbaaf9d74fd9

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:31:50 2020 +0300

code: сумма чисел

commit 3076c51b1c6456edfe5c1839699fac86482cd193

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:24:22 2020 +0300

code: ввод чисел

commit 9ceb7636a3647ca2c3995081c212fa6d98a2b9c7

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:03:43 2020 +0300

code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --grep "build"

commit b97ed900871e385023b3d5ef4c6a73b3a2d2d1af

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:09:17 2020 +0300

build:добавлен файл проекта

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log -- project.cbp

commit b97ed900871e385023b3d5ef4c6a73b3a2d2d1af

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:09:17 2020 +0300

build:добавлен файл проекта

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show c20f4c8

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

**diff --git a/main.cpp b/main.cpp**

**index e5dc71f..e124458 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -7,7 +7,8 @@ int main()

cout << "Enter A and B: ";

int a, b;

cin >> a >> b;

- cout << "A + B = " << a + b << '\n';

+ cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n';

return 0;

}

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show master

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов

**diff --git a/.gitignore b/.gitignore**

**new file mode 100644**

**index 0000000..b6d9cb0**

**--- /dev/null**

**+++ b/.gitignore**

@@ -0,0 +1,4 @@

+/bin

+/obj

+/project.depend

+/project.layout

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show HEAD

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов

**diff --git a/.gitignore b/.gitignore**

**new file mode 100644**

**index 0000000..b6d9cb0**

**--- /dev/null**

**+++ b/.gitignore**

@@ -0,0 +1,4 @@

+/bin

+/obj

+/project.depend

+/project.layout

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show HEAD~1

commit c20f4c8731bb1098c9be3d98b840097bacc0076f *-смотрим предпоследний коммит*

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

**diff --git a/main.cpp b/main.cpp**

**index e5dc71f..e124458 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -7,7 +7,8 @@ int main()

cout << "Enter A and B: ";

int a, b;

cin >> a >> b;

- cout << "A + B = " << a + b << '\n';

+ cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n';

return 0;

}

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff

**diff --git a/main.cpp b/main.cpp**

**index e124458..a8eaf74 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -8,7 +8,8 @@ int main()

int a, b;

cin >> a >> b;

cout << "A + B = " << a + b << '\n'

- << "A - B = " << a - b << '\n'; *- удалилась 1 строка*

+ << "A - B = " << a - b << '\n' *- добавились*

+ << "A \* B = " << a \* b << '\n'; *2 строки*

return 0;

}

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff HEAD~2

**diff --git a/.gitignore b/.gitignore**

**new file mode 100644**

**index 0000000..b6d9cb0**

**--- /dev/null**

**+++ b/.gitignore**

@@ -0,0 +1,4 @@

+/bin

+/obj

+/project.depend

+/project.layout

**diff --git a/main.cpp b/main.cpp**

**index e5dc71f..a8eaf74 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -7,7 +7,9 @@ int main()

cout << "Enter A and B: ";

int a, b;

cin >> a >> b;

- cout << "A + B = " << a + b << '\n';

+ cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n'

+ << "A \* B = " << a \* b << '\n';

return 0;

}

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff HEAD~2 HEAD

**diff --git a/.gitignore b/.gitignore**

**new file mode 100644**

**index 0000000..b6d9cb0**

**--- /dev/null**

**+++ b/.gitignore**

@@ -0,0 +1,4 @@

+/bin

+/obj

+/project.depend

+/project.layout

**diff --git a/main.cpp b/main.cpp**

**index e5dc71f..e124458 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -7,7 +7,8 @@ int main()

cout << "Enter A and B: ";

int a, b;

cin >> a >> b;

- cout << "A + B = " << a + b << '\n';

+ cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n';

return 0;

}

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff HEAD~5 HEAD~1

**diff --git a/main.cpp b/main.cpp**

**index 480c01c..e124458 100644**

**--- a/main.cpp**

**+++ b/main.cpp**

@@ -4,7 +4,11 @@ using namespace std;

int main()

{

- cout << "Hello world!" << endl;

+ cout << "Enter A and B: ";

+ int a, b;

+ cin >> a >> b;

+ cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n';

return 0;

}

**diff --git a/project.cbp b/project.cbp**

**new file mode 100644**

**index 0000000..e066312**

**--- /dev/null**

**+++ b/project.cbp**

@@ -0,0 +1,43 @@

+<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add -u

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code: + умножение чисел'

[master d189380] code: + умножение чисел

1 file changed, 2 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard HEAD~1

HEAD is now at 9413319 git: игнорирование побочных файлов

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout HEAD -- main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git remote add origin https://github.com/SoninAV/cs-lab02.git

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push -u origin master

Logon failed, use ctrl+c to cancel basic credential prompt.

remote: No anonymous write access.

fatal: Authentication failed for 'https://github.com/SoninAV/cs-lab02.git/'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push -u origin master

Enumerating objects: 18, done.

Counting objects: 100% (18/18), done.

Delta compression using up to 2 threads

Compressing objects: 100% (16/16), done.

Writing objects: 100% (18/18), 2.36 KiB | 268.00 KiB/s, done.

Total 18 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), done.

To https://github.com/SoninAV/cs-lab02.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout HEAD -- main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git fetch

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), 411 bytes | 4.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

9413319..b5affb6 master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:38:00 2020 +0300

code: + разность чисел

commit 2f680625e18262d59cbb06dc75b8dbaaf9d74fd9

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:31:50 2020 +0300

code: сумма чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --all -oneline --decorate --graph

fatal: unrecognized argument: -oneline

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph

\* b5affb6 (origin/master) code: + умножение

\* 9413319 (HEAD -> master) git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел

\* b97ed90 build:добавлен файл проекта

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

error: Your local changes to the following files would be overwritten by merge:

main.cpp

Please commit your changes or stash them before you merge.

Aborting

Updating 9413319..b5affb6

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull

error: Your local changes to the following files would be overwritten by merge:

main.cpp

Please commit your changes or stash them before you merge.

Aborting

Updating 9413319..b5affb6

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git merge double

merge: double - not something we can merge

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

To https://github.com/SoninAV/cs-lab02.git

! [rejected] master -> master (non-fast-forward)

error: failed to push some refs to 'https://github.com/SoninAV/cs-lab02.git'

hint: Updates were rejected because the tip of your current branch is behind

hint: its remote counterpart. Integrate the remote changes (e.g.

hint: 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pullb5affb6 (origin/master) code: + умножениеg

bash: syntax error near unexpected token `('

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ \* 9413319

bash: bin: command not found

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull

error: Your local changes to the following files would be overwritten by merge:

main.cpp

Please commit your changes or stash them before you merge.

Aborting

Updating 9413319..b5affb6

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git merge master/origin

merge: master/origin - not something we can merge

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

error: Your local changes to the following files would be overwritten by merge:

main.cpp

Please commit your changes or stash them before you merge.

Aborting

Updating 9413319..b5affb6

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.

(use "git pull" to update your local branch)

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout HEAD -- main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.

(use "git pull" to update your local branch)

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

Updating 9413319..b5affb6

Fast-forward

main.cpp | 7 +------

1 file changed, 1 insertion(+), 6 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git fetch

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), 465 bytes | 3.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

b5affb6..b4bc923 master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph

\* b4bc923 (origin/master) code: + умножение

\* b5affb6 (HEAD -> master) code: + умножение

\* 9413319 git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел

\* b97ed90 build:добавлен файл проекта

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

error: Your local changes to the following files would be overwritten by merge:

main.cpp

Please commit your changes or stash them before you merge.

Aborting

Updating b5affb6..b4bc923

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.

(use "git pull" to update your local branch)

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout HEAD -- main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.

(use "git pull" to update your local branch)

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

Updating b5affb6..b4bc923

Fast-forward

main.cpp | 7 ++++++-

1 file changed, 6 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only

From https://github.com/SoninAV/cs-lab02

+ b4bc923...b5affb6 master -> origin/master (forced update)

Already up to date.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + деление чисел'

[master 6416c46] code: + деление чисел

1 file changed, 2 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

To https://github.com/SoninAV/cs-lab02.git

! [rejected] master -> master (fetch first)

error: failed to push some refs to 'https://github.com/SoninAV/cs-lab02.git'

hint: Updates were rejected because the remote contains work that you do

hint: not have locally. This is usually caused by another repository pushing

hint: to the same ref. You may want to first integrate the remote changes

hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), 467 bytes | 3.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

b5affb6..5ccdb6b master -> origin/master

Auto-merging main.cpp

CONFLICT (content): Merge conflict in main.cpp

Automatic merge failed; fix conflicts and then commit the result.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master|MERGING)

$ git push

To https://github.com/SoninAV/cs-lab02.git

! [rejected] master -> master (non-fast-forward)

error: failed to push some refs to 'https://github.com/SoninAV/cs-lab02.git'

hint: Updates were rejected because the tip of your current branch is behind

hint: its remote counterpart. Integrate the remote changes (e.g.

hint: 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master|MERGING)

$ git log

commit 6416c46ffde2cab65b2747bfeb9bae95c24b4ec7 (HEAD -> master)

Author: Alice (SoninAV) <alice@example.com>

Date: Sun Apr 5 11:35:58 2020 +0300

code: + деление чисел

commit b4bc92361c54614bfae93373369f12adff47773f

Author: Bob(SoninAV) <bob@example.com>

Date: Sun Apr 5 10:26:44 2020 +0300

code: + умножение

commit b5affb61385e61d1830659fe43cbb05aa6565879

Author: Bob(SoninAV) <bob@example.com>

Date: Sat Apr 4 22:29:33 2020 +0300

code: + умножение

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master|MERGING)

$ git status

On branch master

Your branch and 'origin/master' have diverged,

and have 2 and 1 different commits each, respectively.

(use "git pull" to merge the remote branch into yours)

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master|MERGING)

$ git commit -a -m 'code: + деление чисел'

[master 0be2d5b] code: + деление чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

Enumerating objects: 13, done.

Counting objects: 100% (13/13), done.

Delta compression using up to 2 threads

Compressing objects: 100% (9/9), done.

Writing objects: 100% (9/9), 1.14 KiB | 292.00 KiB/s, done.

Total 9 (delta 3), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (3/3), completed with 1 local object.

To https://github.com/SoninAV/cs-lab02.git

5ccdb6b..0be2d5b master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log

commit 0be2d5b279b0ade3519802b4f170a5f6a5a89f6a (HEAD -> master, origin/master)

Merge: 6416c46 5ccdb6b

Author: Alice (SoninAV) <alice@example.com>

Date: Sun Apr 5 11:50:47 2020 +0300

code: + деление чисел

commit 6416c46ffde2cab65b2747bfeb9bae95c24b4ec7

Author: Alice (SoninAV) <alice@example.com>

Date: Sun Apr 5 11:35:58 2020 +0300

code: + деление чисел

commit 5ccdb6b799a9a1979f6f0de07e6fbf23a857b18f

Author: Bob(SoninAV) <bob@example.com>

Date: Sun Apr 5 11:26:46 2020 +0300

code: + умножение

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + умножение'

[master b8c12c3] code: + умножение

1 file changed, 5 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard HEAD~1

HEAD is now at 0be2d5b code: + деление чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ $ git commit -a -m 'code: + деление чисел'

bash: $: command not found

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ $ git commit -a -m 'code: + деление чисел'

bash: $: command not found

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + деление чисел'

[master c62eeeb] code: + деление чисел

1 file changed, 5 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 396 bytes | 396.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/SoninAV/cs-lab02.git

0be2d5b..c62eeeb master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard c62eeebbabf9a0029c400fb358be61211f8583ca

HEAD is now at c62eeeb code: + деление чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push --force

Everything up-to-date

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + вывод максимума'

[master f99eb2b] code: + вывод максимума

1 file changed, 9 insertions(+)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 453 bytes | 453.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/SoninAV/cs-lab02.git

c62eeeb..f99eb2b master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: + вывод минимума'

[master 77a9ca2] code: + вывод минимума

1 file changed, 8 insertions(+), 2 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git branch double

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout double

Switched to branch 'double'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (double)

$ git checkout master

Switched to branch 'master'

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: double'

[master f472c3e] code: double

1 file changed, 1 insertion(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git merge double

Already up to date.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m 'code: double'

[master c1897e5] code: double

1 file changed, 1 insertion(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout double

Switched to branch 'double'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (double)

$ git commit -a -m 'code: double'

[double d9f5047] code: double

1 file changed, 1 insertion(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (double)

$ git checkout master

Switched to branch 'master'

Your branch is ahead of 'origin/master' by 3 commits.

(use "git push" to publish your local commits)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git merge double

error: Empty commit message.

Not committing merge; use 'git commit' to complete the merge.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master|MERGING)

$ git commit -m 'code: double'

[master d18c39f] code: double

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

To https://github.com/SoninAV/cs-lab02.git

! [rejected] master -> master (fetch first)

error: failed to push some refs to 'https://github.com/SoninAV/cs-lab02.git'

hint: Updates were rejected because the remote contains work that you do

hint: not have locally. This is usually caused by another repository pushing

hint: to the same ref. You may want to first integrate the remote changes

hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git fetch

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (2/2), done.

remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0

Unpacking objects: 100% (3/3), 411 bytes | 3.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

f99eb2b..64c3fb5 master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph

\* d18c39f (HEAD -> master) code: double

|\

| \* d9f5047 (double) code: double

\* | c1897e5 code: double

\* | f472c3e code: double

|/

\* 77a9ca2 code: + вывод минимума

| \* 64c3fb5 (origin/master) code: + вывод максимума

|/

\* f99eb2b code: + вывод максимума

\* c62eeeb code: + деление чисел

\* 0be2d5b code: + деление чисел

|\

| \* 5ccdb6b code: + умножение

\* | 6416c46 code: + деление чисел

\* | b4bc923 code: + умножение

|/

\* b5affb6 code: + умножение

\* 9413319 git: игнорирование побочных файлов

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git rebase origin/master

Successfully rebased and updated refs/heads/master.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph

\* 74da850 (HEAD -> master) code: double

\* f62da8e code: double

\* 197089d code: double

\* 64c3fb5 (origin/master) code: + вывод максимума

| \* d9f5047 (double) code: double

| \* 77a9ca2 code: + вывод минимума

|/

\* f99eb2b code: + вывод максимума

\* c62eeeb code: + деление чисел

\* 0be2d5b code: + деление чисел

|\

| \* 5ccdb6b code: + умножение

\* | 6416c46 code: + деление чисел

\* | b4bc923 code: + умножение

|/

\* b5affb6 code: + умножение

\* 9413319 git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 2 threads

Compressing objects: 100% (5/5), done.

Writing objects: 100% (5/5), 589 bytes | 589.00 KiB/s, done.

Total 5 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 1 local object.

To https://github.com/SoninAV/cs-lab02.git

64c3fb5..74da850 master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/alice/project (master)

$

***Отчет Боб:***

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob

$ git clone https://github.com/SoninAV/cs-lab02.git project

Cloning into 'project'...

remote: Enumerating objects: 18, done.

remote: Counting objects: 100% (18/18), done.

remote: Compressing objects: 100% (14/14), done.

remote: Total 18 (delta 2), reused 18 (delta 2), pack-reused 0

Receiving objects: 100% (18/18), done.

Resolving deltas: 100% (2/2), done.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob

$ cd project

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git config user.name 'Bob(SoninAV)'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git config user.email 'bob@example.com'

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git add -u

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -m 'code: + умножение'

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git add main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -m 'code: +умножение'

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -a -m 'code: + умножение'

warning: LF will be replaced by CRLF in project.cbp.

The file will have its original line endings in your working directory

[master b5affb6] code: + умножение

1 file changed, 1 insertion(+), 6 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git remote add origin https://github.com/SoninAV/cs-lab02.git

fatal: remote origin already exists.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git remote add origin https://github.com/SoninAV/cs-lab02.git

fatal: remote origin already exists.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push -u origin master

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 431 bytes | 431.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/SoninAV/cs-lab02.git

9413319..b5affb6 master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git checkout HEAD -- main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

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: main.cpp

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

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -a -m 'code: + умножение'

[master b4bc923] code: + умножение

1 file changed, 6 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 485 bytes | 485.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/SoninAV/cs-lab02.git

b5affb6..b4bc923 master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log

commit b4bc92361c54614bfae93373369f12adff47773f (HEAD -> master, origin/master, origin/HEAD)

Author: Bob(SoninAV) <bob@example.com>

Date: Sun Apr 5 10:26:44 2020 +0300

code: + умножение

commit b5affb61385e61d1830659fe43cbb05aa6565879

Author: Bob(SoninAV) <bob@example.com>

Date: Sat Apr 4 22:29:33 2020 +0300

code: + умножение

commit 941331967c5e01f6bc76c785e5c40f97f159e3ba

Author: Alice (SoninAV) <alice@example.com>

Date: Fri Apr 3 22:56:14 2020 +0300

git: игнорирование побочных файлов

commit c20f4c8731bb1098c9be3d98b840097bacc0076f

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git reset --hard b5affb61385e61d1830659fe43cbb05aa6565879

HEAD is now at b5affb6 code: + умножение

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push --force

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/SoninAV/cs-lab02.git

+ b4bc923...b5affb6 master -> master (forced update)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git reset --hard b5affb61385e61d1830659fe43cbb05aa6565879

HEAD is now at b5affb6 code: + умножение

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push --force

Everything up-to-date

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -a -m 'code: + умножение'

[master 5ccdb6b] code: + умножение

1 file changed, 7 insertions(+), 1 deletion(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 487 bytes | 487.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/SoninAV/cs-lab02.git

b5affb6..5ccdb6b master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git fetch

remote: Enumerating objects: 13, done.

remote: Counting objects: 100% (13/13), done.

remote: Compressing objects: 100% (6/6), done.

remote: Total 9 (delta 3), reused 9 (delta 3), pack-reused 0

Unpacking objects: 100% (9/9), 1.12 KiB | 5.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

5ccdb6b..0be2d5b master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log --oneline --decorate --all --graph

\* 0be2d5b (origin/master, origin/HEAD) code: + деление чисел *-клонированная ветка master*

|\

| \* 5ccdb6b (HEAD -> master) code: + умножение *-главная ветка master(ветка раздвоилась)*

\* | 6416c46 code: + деление чисел

\* | b4bc923 code: + умножение

|/

\* b5affb6 code: + умножение

\* 9413319 git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел

\* b97ed90 build:добавлен файл проекта

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git pull --ff-only

Updating 5ccdb6b..0be2d5b

Fast-forward

main.cpp | 5 +++++

1 file changed, 5 insertions(+)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log --oneline --decorate --all --graph

\* 0be2d5b (HEAD -> master, origin/master, origin/HEAD) code: + деление чисел

|\

| \* 5ccdb6b code: + умножение

\* | 6416c46 code: + деление чисел

\* | b4bc923 code: + умножение

|/

\* b5affb6 code: + умножение

\* 9413319 git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел

\* b97ed90 build:добавлен файл проекта

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -a -m 'code: + умножение'

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git fetch

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (2/2), done.

remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0

Unpacking objects: 100% (3/3), 376 bytes | 11.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

0be2d5b..c62eeeb master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git pull --ff-only

Updating 0be2d5b..c62eeeb

Fast-forward

main.cpp | 5 -----

1 file changed, 5 deletions(-)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -a -m 'code: + вывод минимума'

[master a54da31] code: + вывод минимума

1 file changed, 9 insertions(+)

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push

To https://github.com/SoninAV/cs-lab02.git

! [rejected] master -> master (fetch first)

error: failed to push some refs to 'https://github.com/SoninAV/cs-lab02.git'

hint: Updates were rejected because the remote contains work that you do

hint: not have locally. This is usually caused by another repository pushing

hint: to the same ref. You may want to first integrate the remote changes

hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git fetch

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (2/2), done.

remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0

Unpacking objects: 100% (3/3), 433 bytes | 2.00 KiB/s, done.

From https://github.com/SoninAV/cs-lab02

c62eeeb..f99eb2b master -> origin/master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log --oneline --decorate --all --graph

\* a54da31 (HEAD -> master) code: + вывод минимума

| \* f99eb2b (origin/master, origin/HEAD) code: + вывод максимума

|/

\* c62eeeb code: + деление чисел

\* 0be2d5b code: + деление чисел

|\

| \* 5ccdb6b code: + умножение

\* | 6416c46 code: + деление чисел

\* | b4bc923 code: + умножение

|/

\* b5affb6 code: + умножение

\* 9413319 git: игнорирование побочных файлов

\* c20f4c8 code: + разность чисел

\* 2f68062 code: сумма чисел

\* 3076c51 code: ввод чисел

\* b97ed90 build:добавлен файл проекта

\* 9ceb763 code: заготовка программы

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git rebase origin/master *–замечаем что у нас есть незафиксированные изменения*

error: could not apply a54da31... code: + вывод минимума

Resolve all conflicts manually, mark them as resolved with

"git add/rm <conflicted\_files>", then run "git rebase --continue".

You can instead skip this commit: run "git rebase --skip".

To abort and get back to the state before "git rebase", run "git rebase --abort".

Could not apply a54da31... code: + вывод минимума

Auto-merging main.cpp

CONFLICT (content): Merge conflict in main.cpp

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master|REBASE 1/1)

$ git log

commit f99eb2be68fb45e6d7a9c3ed58456e685b3a552c (HEAD, origin/master, origin/HEAD)

Author: Alice (SoninAV) <alice@example.com>

Date: Sun Apr 5 19:57:27 2020 +0300 0 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

113496126 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

937014448 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

937915419 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

938400370 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

939239926 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

939860157 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

940166401 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

940404632 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

940637499 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

940871532 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

941105636 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

941654727 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

942192631 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

943043504 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

943639825 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

944158675 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

944526494 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

944793983 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

945642595 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

946038610 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

947030599 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

947591207 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

948540831 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

1410878469 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

1412631696 [sig] bash 2176! sigpacket::process: Suppressing signal 18 to win32 process (pid 5988)

[detached HEAD 64c3fb5] code: + вывод максимума

1 file changed, 8 insertions(+), 2 deletions(-)

Successfully rebased and updated refs/heads/master.

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 2 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 431 bytes | 431.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/SoninAV/cs-lab02.git

f99eb2b..64c3fb5 master -> master

Admin\_2019@Admin\_2019-▒▒ MINGW32 ~/Desktop/lab02/bob/project (master)

$