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

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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.

**Отчёт Алиса**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2

$ ls

//**создание каталога alice**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2

$ mkdir alice

//**создание каталога bob**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2

$ mkdir bob

// **просмотр файлов в рабочем каталоге**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2

$ ls

alice/ bob/

//**переход в каталог alice**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2

$ cd alice

//**создание каталога project**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice

$ mkdir project

//**переход на каталог project**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice

$ cd project

//**переход на уровень выше**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project

$ cd ..

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice

$ cd project

// **Инициализация репозитария**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project

$ git init

Initialized empty Git repository in C:/Users/u115-08/Desktop/laba2/alice/project/.git/

// **Настроим репозитарий Алисы**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ ls

main.cpp project.cbp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

//просмотрим состояние рабочей копии

$ git status

On branch master // мы находимся на ветке master

No commits yet // еще нет никаких коммитов

Untracked files: // записаны хранящиеся папки, но не закоммиченные

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

main.cpp

project.cbp

nothing added to commit but untracked files present (use "git add" to track) //В рабочей копии замечен файл,

но Git его не отслеживает.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git add main.cpp //Файл добавляется в индекс

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git status

On branch master// мы находимся на веткеmaster

No commits yet// коммитов еще нет

Changes to be committed:

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

new file: main.cpp //Git начал отслеживать файл.

Untracked files:

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

project.cbp

//В рабочей копии замечен файл, но Git его не отслеживает.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -m 'code: заготовка программы' //Выполним коммит с файлом  main.cpp и коротким сообщением:

[master (root-commit) 2e285a8] code: заготовка программы

1 file changed, 9 insertions(+)

create mode 100644 main.cpp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git add project.cbp //Добавьте файл  project.cbp  в индекс

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

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -m 'build: update CMake version' // коммит тема — build. –коммит относится к сборке

[master ce95841] build: update CMake version

1 file changed, 43 insertions(+)

create mode 100644 project.cbp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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 checkout -- <file>..." to discard changes in working directory)

modified: main.cpp // отслеживаемый файл

Untracked files: // не отслеживаемые файлы

(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")

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git add main.cpp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -m 'code: Enter A and B:' //закоммитить изменения

[master 26e6e05] code: Enter A and B:

1 file changed, 3 insertions(+), 2 deletions(-)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git add -u

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -m 'code: output the sum of numbers'

[master 7fcb9b2] code: output the sum of numbers

1 file changed, 3 insertions(+)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -a -m 'code: output number difference' //вывод разности чисел.

[master 579bbba] code: output number difference

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git status

On branch master

Untracked files:

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

bin/

obj/

project.depend

project.layout

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git add .gitignore

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -m 'git'

[master 8dc3e3b] git

1 file changed, 2 insertions(+)

create mode 100644 .gitignore

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git status

On branch master

Untracked files:

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

project.depend

project.layout

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git log --stat

commit 8dc3e3b0b3648bb0e90ff14374f8c3f66f552188 (HEAD -> master)

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

Date: Fri Mar 13 10:38:22 2020 +0300

git

.gitignore | 2 ++

1 file changed, 2 insertions(+)

commit 579bbba034b48b7fa294abe3ed90c065b92d3511

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

Date: Fri Mar 13 10:29:34 2020 +0300

code: output number difference

main.cpp | 3 ++-

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

commit 7fcb9b2e0ca10ac85e5d82e00b6d5751e9cf81ab

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

Date: Fri Mar 13 10:25:42 2020 +0300

code: output the sum of numbers

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git log --oneline --decorate

8dc3e3b (HEAD -> master) git

579bbba code: output number difference

7fcb9b2 code: output the sum of numbers

26e6e05 code: Enter A and B:

ce95841 build: update CMake version

2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 8dc3e3b (HEAD -> master) git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git log --grep "build:"

commit ce95841c9f0fb882e38f154e2bc4a91d980cf428

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

Date: Fri Mar 13 10:05:14 2020 +0300

build: update CMake version

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git log -- project.cbp

commit ce95841c9f0fb882e38f154e2bc4a91d980cf428

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

Date: Fri Mar 13 10:05:14 2020 +0300

build: update CMake version

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git show HEAD

commit 8dc3e3b0b3648bb0e90ff14374f8c3f66f552188 (HEAD -> master)

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

Date: Fri Mar 13 10:38:22 2020 +0300

git

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,2 @@

+/bin

+/obj

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git diff

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

index d57c0c6..c9633b4 100644

--- a/main.cpp

+++ b/main.cpp

@@ -9,6 +9,7 @@ int main()

cin >> a >> b;

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

- << "A - B = " <<a - b<< '\n'; // удаленная строка

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

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

return 0;

}

//Просмотрим изменения в рабочей копии

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git diff HEAD~2

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,2 @@

+/bin

+/obj

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

index dde42c6..c9633b4 100644

--- a/main.cpp

+++ b/main.cpp

@@ -8,6 +8,8 @@ int main()

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;

}

//показ изменений от указанного коммита до последнего

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git diff HEAD~2 HEAD

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,2 @@

+/bin

+/obj

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

index dde42c6..d57c0c6 100644

--- a/main.cpp

+++ b/main.cpp

@@ -8,6 +8,7 @@ int main()

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;

}

// изменения между самым первым коммитом и коммитом, добавляющим вывод разности.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git diff 2e28 579b

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

index b4392ec..d57c0c6 100644

--- a/main.cpp

+++ b/main.cpp

@@ -4,6 +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 @@

// изменения в рабочей копии (вывод произведения).

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -a -m 'code: output multiplication'

[master e6b01db] code: output multiplication

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git reset --hard HEAD~1

HEAD is now at 8dc3e3b git

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git checkout 8dc3 -- main.cpp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 8dc3e3b (HEAD -> master) git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git remote add origin https://github.com/KazikovAP/cslaba2.git

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git push -u origin master

Enumerating objects: 18, done.

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

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

Writing objects: 100% (18/18), 2.15 KiB | 183.00 KiB/s, done.

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

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

To https://github.com/KazikovAP/cslaba2.git

\* [new branch] master -> master

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

**Отчёт Боб**

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob

$ git clone https://github.com/KazikovAP/cslaba2.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

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob

$ cd project

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git add main.cpp

//коммит вывод произведения

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git commit -m 'code:output multiplication'

[master e4f9226] code:output multiplication

1 file changed, 4 insertions(+), 1 deletion(-)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

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

\* e4f9226 (HEAD -> master) code:output multiplication

\* 8dc3e3b (origin/master, origin/HEAD) git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

//отправка на git

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git push

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 396 bytes | 198.00 KiB/s, done.

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

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

To https://github.com/KazikovAP/cslaba2.git

8dc3e3b..e4f9226 master -> master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git fetch

bash: $'\302\224git': command not found

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 8dc3e3b (HEAD -> master, origin/master) git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git pull --ff-only

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), done.

From https://github.com/KazikovAP/cslaba2

8dc3e3b..e4f9226 master -> origin/master

Updating 8dc3e3b..e4f9226

Fast-forward

main.cpp | 5 ++++-

1 file changed, 4 insertions(+), 1 deletion(-)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -a -m 'code: output division'

[master ff03663] code: output division

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git push

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 369 bytes | 184.00 KiB/s, done.

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

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

To https://github.com/KazikovAP/cslaba2.git

e4f9226..ff03663 master -> master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* ff03663 (HEAD -> master, origin/master) code: output division

\* e4f9226 code:output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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), done.

From https://github.com/KazikovAP/cslaba2

e4f9226..ff03663 master -> origin/master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git pull --ff-only

Updating e4f9226..ff03663

Fast-forward

main.cpp | 3 ++-

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git commit -a -m 'code: search max'

[master ec93d69] code: search max

1 file changed, 14 insertions(+), 2 deletions(-)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git push

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 437 bytes | 218.00 KiB/s, done.

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

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

To https://github.com/KazikovAP/cslaba2.git

ff03663..ec93d69 master -> master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git commit -a -m 'code: search min'

[master 000fa13] code: search min

1 file changed, 15 insertions(+), 2 deletions(-)

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git push

To https://github.com/KazikovAP/cslaba2.git

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

error: failed to push some refs to 'https://github.com/KazikovAP/cslaba2.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.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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), done.

From https://github.com/KazikovAP/cslaba2

ff03663..ec93d69 master -> origin/master

//ветка  master  раздвоилась

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

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

\* 000fa13 (HEAD -> master) code: search min

| \* ec93d69 (origin/master, origin/HEAD) code: search max

\* ff03663 code: output division

\* e4f9226 code: output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git rebase origin/master

First, rewinding head to replay your work on top of it...

Applying: code: search min

Using index info to reconstruct a base tree...

M main.cpp

Falling back to patching base and 3-way merge...

Auto-merging main.cpp

CONFLICT (content): Merge conflict in main.cpp

error: Failed to merge in the changes.

hint: Use 'git am --show-current-patch' to see the failed patch

Patch failed at 0001 code: search min

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".

// codeblocks совместил работу над поиском min и max, с метками <<<<<< ======;

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master|REBASE 1/1)

$ git add main.cpp

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master|REBASE 1/1)

$ git rebase --continue

Applying: code: search min

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

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

\* 193ccaa (HEAD -> master) code: search min

\* ec93d69 (origin/master, origin/HEAD) code: search max

\* ff03663 code: output division

\* e4f9226 code: output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/bob/project (master)

$ git push

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 459 bytes | 229.00 KiB/s, done.

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

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

//Создаем ветку double:

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git branch double

//Переключаемся на нее:

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git checkout double

Switched to branch 'double'

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (double)

$ git commit -a -m 'code: now a and b double'

[double acf93f3] code: now a and b double

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (double)

$ git checkout master

Switched to branch 'master'

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/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), done.

From https://github.com/KazikovAP/cslaba2

ec93d69..193ccaa master -> origin/master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 6c70787 (double) code: now a and b double

| \* 193ccaa (origin/master) code: search min

\* ec93d69 (HEAD -> master) code: search max

\* ff03663 code: output division

\* e4f9226 code:output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

//Слияние ветки double  в  master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git merge double

Updating ec93d69..acf93f3

Fast-forward

main.cpp | 3 ++-

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

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 6c70787 (HEAD -> master, double) code: now a and b double

| \* 193ccaa (origin/master) code: search min

\* ec93d69 code: search max

\* ff03663 code: output division

\* e4f9226 code: output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git fetch

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git pull --ff-only

fatal: Not possible to fast-forward, aborting.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git fetch

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git pull --ff-only

fatal: Not possible to fast-forward, aborting.

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

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

\* 6c70787 (HEAD -> master, double) code: now a and b double

\* 193ccaa (origin/master) code: search min

|\* ec93d69 code: search max

\* ff03663 code: output division

\* e4f9226 code: output multiplication

\* 8dc3e3b git

\* 579bbba code: output number difference

\* 7fcb9b2 code: output the sum of numbers

\* 26e6e05 code: Enter A and B:

\* ce95841 build: update CMake version

\* 2e285a8 code: заготовка программы

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project (master)

$ git reset --hard origin/master

HEAD is now at 193ccaa code:search min

[master b92b4bf] Merge branch 'double'

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project/project (master)

$ git push

Enumerating objects: 5, done.

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

Delta compression using up to 4 threads

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

Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.

Total 3 (delta 2), reused 0 (delta 0)

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

To https://github.com/KazikovAP/cslaba2.git

c70a4a2..6c70787 master -> master

u115-08@PROG-16 MINGW32 ~/Desktop/laba2/alice/project/project (master)

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