**Разработка программного обеспечения систем управления**

**“Система контроля версий Git”**

06.04.20

Зозуля.А.В

А-03-19

Отчёт по лабараторной работе

№2

Запустил Git Bash. Ввёл "mkdir lb02" создался каталог по пути "C:\Users\Andrej\lb02".

Перешёл в lb02 с помошью команд cd lb02.

ls ничего не отобразила.

Создал alice, bob.

Перешёл в Alice с помошью команд 'cd Alice '.

mkdir project , cd project , cd .. , cd project ;

>>git init : Initialized empty Git repository in C:/Users/Andrej/lb02/alice/project/.git/

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

>>git config user.name 'Alice (IvanovII)'

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

//

Project title: project

Folder to create project in: C:\Users\Andrej\lb02\alice\project

Project filename: project.cbp

Resulting filename: C:\Users\user\Desktop\lab02\alice\project\project.cbp

Проек собран

//

$ git status

On branch master

No commits yet (На родительской ветке нет коммитов)

Untracked files: (но есть не отслеживаемый каталог project, если его добавить то можно будет добовлять коммиты по отношению к каталогу)

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

project/

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

$ git add main.cpp

$git commit -m 'code: заготовка программы'

[master (root-commit) 926e060] code: заготовка программы

1 file changed, 9 insertions(+)

create mode 100644 main.cpp

$ 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

$ git commit -m 'build: add project file'

[master 31f73e6] build: add project file

1 file changed, 42 insertions(+)

create mode 100644 project.cbp

Замена тела main

cout << "Enter A and B: ";

int a, b;

cin >> a >> b;

$ 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

Untracked files:

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

bin/

obj/

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

Добавилось оповищение о модификации main.cpp

$ git commit -m "code:added + and - operation"

[master b71646c] code:added + and - operation

1 file changed, 5 insertions(+), 2 deletions(-)

Добавил в корневую папку ign.gitignore:

/bin

/obj

$ git status

On branch master

Untracked files:

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

.gitignore

main.exe

main.o

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

$ git commit -m "build:added ignorance"

On branch master

Untracked files:

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

.gitignore

main.exe

main.o

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

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

\* b71646c (HEAD -> master) code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

$ git log --oneline --decorate

b71646c (HEAD -> master) code:added + and - operation

31f73e6 build: add project file

926e060 code: заготовка программы

$ git log --stat

commit b71646c69433a7a1bb9a6514bcf9082b4f23f9d0 (HEAD -> master)

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

Date: Mon Mar 23 12:48:52 2020 +0300

code:added + and - operation

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

1 file changed, 5 insertions(+), 2 deletions(-)

commit 31f73e6471310c843c88733fbaf07ea4db7931da

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

Date: Mon Mar 23 12:41:14 2020 +0300

build: add project file

project.cbp | 42 ++++++++++++++++++++++++++++++++++++++++++

1 file changed, 42 insertions(+) (42 вставки)

commit 926e060da8dc292ed6b15aa96914b0cf60aedb93 (хэш коммита)

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

Date: Mon Mar 23 12:36:17 2020 +0300 (дата)

code: заготовка программы (коммит)

main.cpp | 9 +++++++++

1 file changed, 9 insertions(+)

(END)

$ git add .gitignore

$ git commit -m "build: added ignorance"

[master 4b9c5de] build: added ignorance

1 file changed, 2 insertions(+)

create mode 100644 .gitignore

git log -- main.cpp

commit b71646c69433a7a1bb9a6514bcf9082b4f23f9d0

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

Date: Mon Mar 23 12:48:52 2020 +0300

code:added + and - operation

commit 926e060da8dc292ed6b15aa96914b0cf60aedb93

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

Date: Mon Mar 23 12:36:17 2020 +0300

code: заготовка программы

$ git log --grep "build:"

commit 4b9c5dec0cf381b059edcd4f05bfddf0157f1d23 (HEAD -> master)

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

Date: Mon Mar 23 13:18:45 2020 +0300

build: added ignorance

commit 31f73e6471310c843c88733fbaf07ea4db7931da

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

Date: Mon Mar 23 12:41:14 2020 +0300

build: add project file

$ git log -- project.cbp

commit 31f73e6471310c843c88733fbaf07ea4db7931da

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

Date: Mon Mar 23 12:41:14 2020 +0300

build: add project file

$ git show HEAD

commit 4b9c5dec0cf381b059edcd4f05bfddf0157f1d23 (HEAD -> master)

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

Date: Mon Mar 23 13:18:45 2020 +0300

build: added ignorance

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

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

+/bin

+/obj

$ git show master

commit 4b9c5dec0cf381b059edcd4f05bfddf0157f1d23 (HEAD -> master)

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

Date: Mon Mar 23 13:18:45 2020 +0300

build: added ignorance

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

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

+/bin

+/obj

$ git show 4b9c5

commit 4b9c5dec0cf381b059edcd4f05bfddf0157f1d23 (HEAD -> master)

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

Date: Mon Mar 23 13:18:45 2020 +0300

build: added ignorance

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

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

+/bin

+/obj

Добавил

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

$ git diff

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

index e84d77b..93b7610 100644

--- a/main.cpp

+++ b/main.cpp

@@ -9,4 +9,5 @@ int main()

cin >> a >> b;

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

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

+ cout << "A\*B = " << a\*b << '\n'; (Показывает, что последним была добавлена эта строчка произошедшие в main.cpp)

}

$ 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 b4392ec..93b7610 100644

--- a/main.cpp

+++ b/main.cpp

@@ -4,6 +4,10 @@ using namespace std;

int main()

{

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

- return 0;

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

+ int a, b;

+ cin >> a >> b;

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

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

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

}

(END)

$ 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 b4392ec..e84d77b 100644

--- a/main.cpp

+++ b/main.cpp

@@ -4,6 +4,9 @@ using namespace std;

int main()

{

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

- return 0;

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

+ int a, b;

+ cin >> a >> b;

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

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

}

(END)

$ git diff HEAD~3 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 b4392ec..e84d77b 100644

--- a/main.cpp

+++ b/main.cpp

@@ -4,6 +4,9 @@ using namespace std;

int main()

{

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

- return 0;

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

+ int a, b;

+ cin >> a >> b;

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

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

}

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

new file mode 100644

index 0000000..971cb1f

--- /dev/null

+++ b/project.cbp

@@ -0,0 +1,42 @@

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

+<CodeBlocks\_project\_file>

+ <FileVersion major="1" minor="6" />

+ <Project>

+ <Option title="project" />

+ <Option pch\_mode="2" />

+ <Option compiler="mingw-w64\_gcc" />

+ <Build>

+ <Target title="Debug">

+ <Option output="bin/Debug/project" prefix\_auto="1" extension\_auto="1" />

+ <Option object\_output="obj/Debug/" />

+ <Option type="1" />

+ <Option compiler="mingw-w64\_gcc" />

+ <Compiler>

+ <Add option="-g" />

+ </Compiler>

+ </Target>

+ <Target title="Release">

+ <Option output="bin/Release/project" prefix\_auto="1" extension\_auto="1" />

+ <Option object\_output="obj/Release/" />

+ <Option type="1" />

+ <Option compiler="mingw-w64\_gcc" />

+ <Compiler>

+ <Add option="-O2" />

+ </Compiler>

+ <Linker>

+ <Add option="-s" />

+ </Linker>

+ </Target>

+ </Build>

+ <Compiler>

+ <Add option="-Wall" />

+ <Add option="-fexceptions" />

+ </Compiler>

+ <Unit filename="main.cpp" />

+ <Extensions>

+ <code\_completion />

+ <envvars />

+ <debugger />

+ </Extensions>

+ </Project>

+</CodeBlocks\_project\_file>

(END)

$ git add main.cpp

$ git commit -m "code: added \* operation"

[master 7d11a83] code: added \* operation

1 file changed, 1 insertion(+)

$ git reset --hard HEAD~1

HEAD is now at 4b9c5de build: added ignorance

Подтвердил изменения

Добавлен // you may type whatever you want

$ git checkout HEAD -- main.cpp

$ git remote add origin <https://github.com/AndrejCuckoo/cs-lab02.git>

$ git push -u origin master

Enumerating objects: 12, done.

Counting objects: 100% (12/12), done.

Delta compression using up to 8 threads

Compressing objects: 100% (10/10), done.

Writing objects: 100% (12/12), 1.64 KiB | 841.00 KiB/s, done.

Total 12 (delta 0), reused 0 (delta 0)

To <https://github.com/AndrejCuckoo/cs-lab02.git>

\* [new branch] master -> master

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

<https://github.com/AndrejCuckoo/cs-lab02.git>

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob

$ git clone <https://github.com/AndrejCuckoo/cs-lab02.git> project

Cloning into 'project'...

remote: Enumerating objects: 12, done.

remote: Counting objects: 100% (12/12), done.

remote: Compressing objects: 100% (10/10), done.

remote: Total 12 (delta 0), reused 12 (delta 0), pack-reused 0

Unpacking objects: 100% (12/12), 1.62 KiB | 22.00 KiB/s, done.

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

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

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git commit -m "code:aded \* operation"

[master dc3e380] code:aded \* operation

1 file changed, 1 insertion(+)

git log -- main.cpp

commit dc3e38094f6195f36f3d26e78b1770fc801e3078 (HEAD -> master)

Author: Bob (andrey) <Bob@example.com>

Date: Mon Mar 23 14:44:41 2020 +0300

code:aded \* operation

commit b71646c69433a7a1bb9a6514bcf9082b4f23f9d0

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

Date: Mon Mar 23 12:48:52 2020 +0300

code:added + and - operation

commit 926e060da8dc292ed6b15aa96914b0cf60aedb93

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

Date: Mon Mar 23 12:36:17 2020 +0300

code: заготовка программы

Последний коммит сделан Бобом

$ git push

Enumerating objects: 5, done.

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

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 381 bytes | 381.00 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/AndrejCuckoo/cs-lab02.git>

4b9c5de..dc3e380 master -> master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/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), 361 bytes | 15.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

4b9c5de..dc3e380 master -> origin/master

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

\* dc3e380 (origin/master) code:aded \* operation

\* 4b9c5de (HEAD -> master) build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

$ git pull --ff-only

Updating 4b9c5de..dc3e380

Fast-forward

main.cpp | 1 +

1 file changed, 1 insertion(+)

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git commit -m "added / operation"

[master 34a33d7] added / operation

1 file changed, 1 insertion(+)

$ git push

Enumerating objects: 5, done.

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

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 377 bytes | 377.00 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/AndrejCuckoo/cs-lab02.git>

dc3e380..34a33d7 master -> master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/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), 357 bytes | 19.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

dc3e380..34a33d7 master -> origin/master

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

\* 34a33d7 (origin/master, origin/HEAD) added / operation

\* dc3e380 (HEAD -> master) code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git pull --ff-only

Updating dc3e380..34a33d7

Fast-forward

main.cpp | 1 +

1 file changed, 1 insertion(+)

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git commit -m "code:added max"

[master 1692a75] code:added max

1 file changed, 1 insertion(+)

$ git push

Enumerating objects: 5, done.

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

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 375 bytes | 375.00 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/AndrejCuckoo/cs-lab02.git>

34a33d7..1692a75 master -> master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/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), 355 bytes | 20.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

34a33d7..1692a75 master -> origin/master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git commit -m "code:added min"

[master 7525588] code:added min

1 file changed, 1 insertion(+)

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git push

To <https://github.com/AndrejCuckoo/cs-lab02.git>

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

error: failed to push some refs to '<https://github.com/AndrejCuckoo/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.

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

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

\* 7525588 (HEAD -> master) code:added min

| \* 1692a75 (origin/master, origin/HEAD) code:added max

|/

\* 34a33d7 added / operation

\* dc3e380 code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

$ git rebase origin/master

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

Applying: code:added 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:added 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".

Согласился на изменения в коде

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 1/1)

$ git rebase --continue

Applying: code:added min

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

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

\* 853ce86 (HEAD -> master) code:added min

\* 1692a75 (origin/master, origin/HEAD) code:added max

\* 34a33d7 added / operation

\* dc3e380 code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

$ git show HEAD

commit 1692a754301dcdcd1266f4ebfa737fe3f9aa4f2d (HEAD, origin/master, origin/HEAD)

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

Date: Mon Mar 23 15:31:05 2020 +0300

code:added max

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

index ff5566d..0aabb1a 100644

--- a/main.cpp

+++ b/main.cpp

@@ -11,4 +11,5 @@ int main()

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

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

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

+ cout << "Max " << max(a,b) << '\n';

}

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 1/1)

$ git show master

commit 752558812c2a64833e23fd586369a311e77e5539 (master)

Author: Bob (andrey) <Bob@example.com>

Date: Mon Mar 23 15:34:40 2020 +0300

code:added min

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

index ff5566d..c1c0a81 100644

--- a/main.cpp

+++ b/main.cpp

@@ -11,4 +11,5 @@ int main()

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

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

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

+ cout << "min = " << min(a,b) << '\n';

}

$ git branch double

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git checkout double

Switched to branch 'double'

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (double)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (double)

$ git commit -m "code:added double"

[double 2a0b619] code:added double

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

$ git checkout master

Switched to branch 'master'

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

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git push

Enumerating objects: 5, done.

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

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 356 bytes | 356.00 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/AndrejCuckoo/cs-lab02.git>

1692a75..7f717cd master -> master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

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

\* 7f717cd (HEAD -> master, origin/master) code:added double

| \* 2a0b619 (double) code:added double

|/

\* 1692a75 code:added max

\* 34a33d7 added / operation

\* dc3e380 code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git merge double

Merge made by the 'recursive' strategy.

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

$ git push

Enumerating objects: 2, done.

Counting objects: 100% (2/2), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (2/2), 334 bytes | 334.00 KiB/s, done.

Total 2 (delta 1), reused 0 (delta 0)

remote: Resolving deltas: 100% (1/1), done.

To <https://github.com/AndrejCuckoo/cs-lab02.git>

7f717cd..5d7018b master -> master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/alice/project (master)

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

\* 5d7018b (HEAD -> master, origin/master) Merge branch 'double' training commit.

|\

| \* 2a0b619 (double) code:added double

\* | 7f717cd code:added double

|/

\* 1692a75 code:added max

\* 34a33d7 added / operation

\* dc3e380 code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

//////////// Переделанный пункт "Разрешение конфликтов правок при совместной работе" \\\\\\\\\\\\\\\

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git commit -m "Fixed min"

[master 52bad6e] Fixed min

1 file changed, 1 insertion(+), 4 deletions(-)

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git push

To <https://github.com/AndrejCuckoo/cs-lab02.git>

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

error: failed to push some refs to '<https://github.com/AndrejCuckoo/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.

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git fetch

remote: Enumerating objects: 15, done.

remote: Counting objects: 100% (15/15), done.

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

remote: Total 13 (delta 7), reused 8 (delta 4), pack-reused 0

Unpacking objects: 100% (13/13), 7.21 KiB | 90.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

1692a75..36bb2e2 master -> origin/master

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

\* 52bad6e (HEAD -> master) Fixed min

\* 853ce86 code:added min

| \* 36bb2e2 (origin/master, origin/HEAD) Merge branch 'master' of <https://github.com/AndrejCuckoo/cs-lab02> did on purpose

| |\

| | \* 022c751 Добавил отчёт

| \* | 8aa8338 Fixed max

| |/

| \* 5d7018b Merge branch 'double' training commit.

| |\

| | \* 2a0b619 code:added double

| |/

|/|

| \* 7f717cd code:added double

|/

\* 1692a75 code:added max

\* 34a33d7 added / operation

\* dc3e380 code:aded \* operation

\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

$ git rebase origin/master

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

Applying: code:added 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:added 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".

$ git am --show-current-patch

commit 853ce8610a9db4935445d0b02f431c1147e1b12c

Author: Bob (andrey) <Bob@example.com>

Date: Mon Mar 23 15:34:40 2020 +0300

code:added min

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

index 0aabb1a..2876d1e 100644

--- a/main.cpp

+++ b/main.cpp

@@ -11,5 +11,9 @@ int main()

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

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

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

+// HEAD

cout << "Max " << max(a,b) << '\n';

+//

+ cout << "min = " << min(a,b) << '\n';

+// code:added min

}

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 1/2)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 1/2)

$ git rebase --continue

Applying: code:added min

Applying: Fixed 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 0002 Fixed 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".

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

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

\* 7cdca2d (HEAD) code:added min

\* 36bb2e2 (origin/master, origin/HEAD) Merge branch 'master' of <https://github.com/AndrejCuckoo/cs-lab02> did on purpose

|\

| \* 022c751 Добавил отчёт

\* | 8aa8338 Fixed max

|/

\* 5d7018b Merge branch 'double' training commit.

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| \* 2a0b619 code:added double

\* | 7f717cd code:added double

|/

| \* 52bad6e (master) Fixed min

| \* 853ce86 code:added min

|/

\* 1692a75 code:added max

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\* 4b9c5de build: added ignorance

\* b71646c code:added + and - operation

\* 31f73e6 build: add project file

\* 926e060 code: заготовка программы

////////// Пробую устранить ошибку\\\\\\\\\\\\

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git reset master

Unstaged changes after reset:

M main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git commit -m "uploading"

[detached HEAD 7a9f949] uploading

1 file changed, 9 insertions(+), 1 deletion(-)

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git reset master

Unstaged changes after reset:

M main.cpp

$ git pull

remote: Enumerating objects: 7, done.

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

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

remote: Total 6 (delta 3), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (6/6), 6.85 KiB | 143.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

36bb2e2..c5810f4 master -> origin/master

You are not currently on a branch.

Please specify which branch you want to merge with.

See git-pull(1) for details.

git pull <remote> <branch>

$ git push

fatal: You are not currently on a branch.

To push the history leading to the current (detached HEAD)

state now, use

git push origin HEAD:<name-of-remote-branch>

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|REBASE 2/2)

$ git rebase --continue

Applying: Fixed min

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git reset master

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git pull

remote: Enumerating objects: 3, done.

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

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

remote: Total 2 (delta 1), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (2/2), 617 bytes | 61.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

c6716b3..27de258 master -> origin/master

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

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git commit -m "update"

[master 8b5fcfc] update

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

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|MERGING)

$ git add main.cpp

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master|MERGING)

$ git commit -m "update"

[master ff0513e] update

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git pull

Already up to date.

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git push

Enumerating objects: 19, done.

Counting objects: 100% (19/19), done.

Delta compression using up to 8 threads

Compressing objects: 100% (15/15), done.

Writing objects: 100% (15/15), 1.69 KiB | 577.00 KiB/s, done.

Total 15 (delta 5), reused 0 (delta 0)

remote: Resolving deltas: 100% (5/5), completed with 1 local object.

To <https://github.com/AndrejCuckoo/cs-lab02.git>

27de258..ff0513e master -> master

!!!!!Queen - We Are The Champions!!!!!!

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git pull

remote: Enumerating objects: 3, done.

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

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

remote: Total 2 (delta 1), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (2/2), 619 bytes | 103.00 KiB/s, done.

From <https://github.com/AndrejCuckoo/cs-lab02>

7bf5938..d890cd8 master -> origin/master

Already up to date!

hint: Waiting for your editor to close the file... 0 [sig] bash 340! sigpacket::process: Suppressing signal 18 to win32 process (pid 9400)

321105 [sig] bash 340! sigpacket::process: Suppressing signal 18 to win32 process (pid 9400)

2841963 [sig] bash 340! sigpacket::process: Suppressing signal 18 to win32 process (pid 9400)

3052106 [sig] bash 340! sigpacket::process: Suppressing signal 18 to win32 process (pid 9400)

Merge made by the 'recursive' strategy.

Andrej@DESKTOP-S7MV5EI MINGW64 ~/lb02/bob/project (master)

$ git push

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 8 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 529 bytes | 529.00 KiB/s, done.

Total 4 (delta 2), reused 0 (delta 0)

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

To <https://github.com/AndrejCuckoo/cs-lab02.git>

d890cd8..2f1bdd1 master -> master