1. Создаём папки и переходим

u211-15@PROG-11 MINGW32 ~/Desktop/lr02

$ mkdir alice

u211-15@PROG-11 MINGW32 ~/Desktop/lr02

$ mkdir bob

u211-15@PROG-11 MINGW32 ~/Desktop/lr02

$ cd alice

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice

$ mkdir project

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice

$ cd project

1. Инициализируем Git

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project

$ git init

Initialized empty Git repository in C:/Users/u211-15/Desktop/lr02/alice/project/.git/

1. Настраиваем

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

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

1. Просматриваем состояние рабочей копии

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git status

On branch master \\ ветка

No commits yet \\ не было коммитов

Untracked files: \\ не отслеживаемые файлы

(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)

1. Добавляем файл в индекс

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add main.cpp

1. Еще раз просмотрим состояние рабочей копии

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/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

Untracked files:

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

project.cbp \\ файл main.cpp теперь отслеживается

1. Коммитим

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m «code: заготовка программы»

[master (root-commit) 3fa3bb1] code: заготовка программы

1 file changed, 9 insertions(+)

create mode 100644 main.cpp

1. Коммитим

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'build: project .cbp '

[master e7d68fd] build: project .cbp

1 file changed, 40 insertions(+)

create mode 100644 project.cbp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/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 \\ файл изменился

Untracked files:

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

bin/ \\ не отслеживаемые

obj/

project.depend

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

1. Коммитим изменения тремя способами

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'code: äîáàâëåíà ñóììà'

[master 5f6cb33] code: äîáàâëåíà ñóììà

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'code: äîáàâëåíà ñóììà2'

[master 9fd7207] code: äîáàâëåíà ñóììà2

1 file changed, 1 insertion(+)

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add -u

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m "code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ"

[master 766a18a] code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

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

1. Игнорирование файлов

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -a -m 'code: òîæå ñàìîå'

On branch master

Untracked files:

bin/

obj/

project.depend

nothing added to commit but untracked files present

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git status

On branch master

Untracked files:

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

.gitignore \\ bin не отслеживается

obj/

project.depend

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git status

On branch master

Untracked files:

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

.gitignore \\ bin и project .depend игнрируются

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add .gitignore

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'git: äîáàâëåí .gitignore'

[master a6ba8f2] git: äîáàâëåí .gitignore

1 file changed, 3 insertions(+)

create mode 100644 .gitignore

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git status

On branch master

nothing to commit, working tree clean

11) Просмотр истории

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git log --stat

commit a6ba8f2327d270ba0b1c68d91d9230fd90127f65 (HEAD -> master)

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

Date: Mon Mar 15 14:21:13 2021 +0300

\\ время

git: äîáàâëåí .gitignore \\ комментарий

.gitignore | 3 +++ \\ добавилось в .gitignore

1 file changed, 3 insertions(+)

commit 766a18af52afdafd060daf94830d9e05fb0e3b31

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

Date: Mon Mar 15 14:15:59 2021 +0300

code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

main.cpp | 3 ++-

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

commit 9fd7207c6d966405a983c021edad4d4db3f9ff53

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

Date: Mon Mar 15 14:14:43 2021 +0300

code: äîáàâëåíà ñóììà2

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git log --oneline --decorate

a6ba8f2 (HEAD -> master) git: äîáàâëåí .gitignore

766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

9fd7207 code: äîáàâëåíà ñóììà2

5f6cb33 code: äîáàâëåíà ñóììà

e7d68fd build: äîáàâëåí íîâûé ôàéë

3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

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

a6ba8f2 (HEAD -> master) git: äîáàâëåí .gitignore

766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

9fd7207 code: äîáàâëåíà ñóììà2

5f6cb33 code: äîáàâëåíà ñóììà

e7d68fd build: äîáàâëåí íîâûé ôàéë

3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

1. Фильтруем коммиты

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git log --grep 'build:'

commit e7d68fdf21c6d241d494c1bb12018d44f36c901c

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

Date: Mon Mar 15 14:03:17 2021 +0300

build: äîáàâëåí íîâûé ôàéë

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git log -- project.cbp

commit e7d68fdf21c6d241d494c1bb12018d44f36c901c

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

Date: Mon Mar 15 14:03:17 2021 +0300

build: äîáàâëåí íîâûé ôàéë

1. Просмотр коммитов

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show HEAD

commit a6ba8f2327d270ba0b1c68d91d9230fd90127f65 (HEAD -> master)

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

Date: Mon Mar 15 14:21:13 2021 +0300

git: äîáàâëåí .gitignore

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

new file mode 100644

index 0000000..aecc882

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,3 @@

+/bin

+/obj

+/project.depend

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show master

commit a6ba8f2327d270ba0b1c68d91d9230fd90127f65 (HEAD -> master)

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

Date: Mon Mar 15 14:21:13 2021 +0300

git: äîáàâëåí .gitignore

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

new file mode 100644

index 0000000..aecc882

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,3 @@

+/bin

+/obj

+/project.depend

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show a6ba8f

commit a6ba8f2327d270ba0b1c68d91d9230fd90127f65 (HEAD -> master)

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

Date: Mon Mar 15 14:21:13 2021 +0300

git: äîáàâëåí .gitignore

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

new file mode 100644

index 0000000..aecc882

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1,3 @@

+/bin

+/obj

+/project.depend

1. Просмотрим предпоследний коммит тремя способами.

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show HEAD~1

commit 766a18af52afdafd060daf94830d9e05fb0e3b31

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

Date: Mon Mar 15 14:15:59 2021 +0300

code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

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

index 4364dbc..65442c3 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,5 +7,6 @@ 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';

}

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show master~1

commit 766a18af52afdafd060daf94830d9e05fb0e3b31

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

Date: Mon Mar 15 14:15:59 2021 +0300

code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

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

index 4364dbc..65442c3 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,5 +7,6 @@ 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';

}

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git show 766a18a

commit 766a18af52afdafd060daf94830d9e05fb0e3b31

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

Date: Mon Mar 15 14:15:59 2021 +0300

code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

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

index 4364dbc..65442c3 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,5 +7,6 @@ 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';

}

14) Просмотр изменений

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git diff

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

index 65442c3..f372c78 100644

--- a/main.cpp

+++ b/main.cpp

@@ -8,5 +8,6 @@ int main()

int a, b;

cin >> a >> b;

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

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

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

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

}

15) Изменения между самым первым коммитом и коммитом, добавляющим вывод разности

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git diff 766a18a 3fa3bb1

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

index 65442c3..b4392ec 100644

--- a/main.cpp

+++ b/main.cpp

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

int main()

{

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

- int a, b;

- cin >> a >> b;

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

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

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

+ return 0;

}

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

deleted file mode 100644

index 24ceb48..0000000

--- a/project.cbp

+++ /dev/null

@@ -1,40 +0,0 @@

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

16) Коммитим

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'code: âûâîä ïðîèçâåäåíèÿ'

[master 01e5867] code: âûâîä ïðîèçâåäåíèÿ

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

17) Откат изменений

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git reset --hard HEAD~1

HEAD is now at a6ba8f2 git: äîáàâëåí .gitignore

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git checkout HEAD -- main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git status

On branch master

nothing to commit, working tree clean \\ коммит произведения, но это нужно было сделать позже

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git commit -m 'code: ïðîèçâåäåíèå'

[master 10456c4] code: ïðîèçâåäåíèå

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

17) Обмен кодом через удаленное хранилище

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

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

git push -u origin main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (master)

$ git branch -M main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git push -u origin main

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

Username for 'https://github.com': UdalovIA

Enumerating objects: 21, done.

Counting objects: 100% (21/21), done.

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

Writing objects: 100% (21/21), 2.64 KiB | 225.00 KiB/s, done.

Total 21 (delta 3), reused 0 (delta 0)

remote: Resolving deltas: 100% (3/3), done.

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

\* [new branch] main -> main

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git remote -v

origin https://github.com/UdalovIA/cs-lab02.git (fetch)

origin https://github.com/UdalovIA/cs-lab02.git (push)

18) Отправка проекта на GitHub

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git push

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

Username for 'https://github.com': UdalovIA

Everything up-to-date

19) Подключаем Боба

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob

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

Cloning into 'project'...

remote: Enumerating objects: 21, done.

remote: Counting objects: 100% (21/21), done.

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

remote: Total 21 (delta 3), reused 21 (delta 3), pack-reused 0

Unpacking objects: 100% (21/21), done.

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob

$ cd project

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

\\ произведение было добавлено раньше, поэтому не получилось загрузить

20) Добавляем деление

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git commit -m 'code: äåëåíèå'

[main 6f47ace] code: äåëåíèå

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git push

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

Username for 'https://github.com': UdalovIA

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 390 bytes | 195.00 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/UdalovIA/cs-lab02.git

10456c4..6f47ace main -> main

21) подгружаем у Боба

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ 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/UdalovIA/cs-lab02

10456c4..6f47ace main -> origin/main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git pull --ff-only

Updating 10456c4..6f47ace

Fast-forward

main.cpp | 3 ++-

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

22) добавляем максимум и минимум

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git commit -m 'code: max'

[main d1087a9] code: max

1 file changed, 4 insertions(+)

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git push

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

Username for 'https://github.com': UdalovIA

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 385 bytes | 192.00 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/UdalovIA/cs-lab02.git

6f47ace..d1087a9 main -> main

\\ у Алисы

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git commit -m 'code: min'

[main 23a0b64] code: min

1 file changed, 4 insertions(+)

\\ у Боба

23) Загружаем на GitHub от Боба

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git push

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

Username for 'https://github.com': UdalovIA

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

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

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git fetch \\ загружаем с хранилища

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/UdalovIA/cs-lab02

6f47ace..d1087a9 main -> origin/main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

\* 23a0b64 (HEAD -> main) code: min

| \* d1087a9 (origin/main, origin/HEAD) code: max

|/ \\ ветка раздвоилась

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git rebase origin/main

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

Applying: code: 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: 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".

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main|REBASE 1/1)

$ git rebase --continue

main.cpp: needs merge

You must edit all merge conflicts and then

mark them as resolved using git add

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main|REBASE 1/1)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main|REBASE 1/1)

$ git rebase --continue

Applying: code: min

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

\* 450d529 (HEAD -> main) code: min

\* d1087a9 (origin/main, origin/HEAD) code: max

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git commit -m 'git: èïñïðàâëåíèÿ'

On branch main

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

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

nothing to commit, working tree clean

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

$ git push

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

Username for 'https://github.com': UdalovIA

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 371 bytes | 185.00 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/UdalovIA/cs-lab02.git

d1087a9..450d529 main -> main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

\* 450d529 (HEAD -> main, origin/main, origin/HEAD) code: min

\* d1087a9 code: max

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/bob/project (main)

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

\* 450d529 (HEAD -> main, origin/main, origin/HEAD) code: min

\* d1087a9 code: max

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

24) Используем ветки

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git branch double

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git checkout double

Switched to branch 'double'

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (double)

$ git add main.cpp

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (double)

$ git commit -m 'code: double'

[double dfb6c55] code: double

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (double)

$ git checkout main

Switched to branch 'main'

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ 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/UdalovIA/cs-lab02

d1087a9..450d529 main -> origin/main

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

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

\* dfb6c55 (double) code: double

| \* 450d529 (origin/main) code: min

|/

\* d1087a9 (HEAD -> main) code: max

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git merge double

Updating d1087a9..dfb6c55

Fast-forward

main.cpp | 2 +-

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

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git reset --hard 450d529

HEAD is now at 450d529 code: min

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git reset --hard

HEAD is now at 450d529 code: min

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git reset --hard

HEAD is now at 450d529 code: min

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$ git reset --hard dfb6c55

HEAD is now at dfb6c55 code: double

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

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

\* dfb6c55 (HEAD -> main, double) code: double

| \* 450d529 (origin/main) code: min

|/

\* d1087a9 code: max

\* 6f47ace code: äåëåíèå

\* 10456c4 code: ïðîèçâåäåíèå

\* a6ba8f2 git: äîáàâëåí .gitignore

\* 766a18a code: ÂÛÂÎÄ ÐÀÇÍÎÑÒÈ

\* 9fd7207 code: äîáàâëåíà ñóììà2

\* 5f6cb33 code: äîáàâëåíà ñóììà

\* e7d68fd build: äîáàâëåí íîâûé ôàéë

\* 3fa3bb1 code: çàãîòîâêà ïðîãðàììû

u211-15@PROG-11 MINGW32 ~/Desktop/lr02/alice/project (main)

$