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

# Сметанин А.С.

# Проверили

# Мохов А. С

# Козлюк Д. А

Москва 27.03.2020

# Отчёт по «машине Алисы»

u115-09@PROG-09 MINGW32 ~/Desktop/lab02 (master)

$ mkdir alice создание папки алиса

u115-09@PROG-09 MINGW32 ~/Desktop/lab02 (master)

$ mkdir bob создание папки боб

u115-09@PROG-09 MINGW32 ~/Desktop/lab02 (master)

$ cd alice переход в каталог алиса

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice (master)

$ cd .. переход на уровень выше

u115-09@PROG-09 MINGW32 ~/Desktop/lab02 (master)

$ cd alice/ опять переход в каталог алиса

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice (master)

$ mkdir project создание в каталоге алиса папки проект

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice (master)

$ cd project/

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ cd ..

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice (master)

$ cd project/

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git init инициализцаия хранилища

Initialized empty Git repository in C:/Users/u115-09/Desktop/lab02/alice/project/.git/

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git config user.name 'Alice (SmetaninAS)' настройка репозитария чтобы коммиты были от имени алисы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git config user.email 'alice@example.com' настройка репозитария чтобы коммиты были от имени алисы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status вывод информации о файлах и коммитах

On branch master

No commits yet нет коммитов

Untracked files: файлы которые пока не в индексе

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

bin/

main.cpp

obj/

project.cbp

project.depend

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp добавление в индекс программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code: заготовка программы' добавление коммита с коммиентарием заготовка программы

[master (root-commit) ee6a2e0] code: заготовка программы

1 file changed, 9 insertions(+) 1 фаил изменен

create mode 100644 main.cpp

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add project.cbp добавление в индекс

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

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'build' добавление коммита

[master c28b5ba] build

1 file changed, 43 insertions(+)

create mode 100644 project.cbp

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status вывод информации

On branch master

Changes not staged for commit:

(use "git add ..." to update what will be committed)

(use "git checkout -- ..." to discard changes in working directory)

modified: main.cpp изменен фаил

Untracked files: пока не отслеживаются

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

bin/

obj/

project.depend

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m "change code" добавление коммита

[master f491f7d] change code

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main .добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m "cout summ" добавление коммита с суммой

[master 7103323] cout summ

1 file changed, 1 insertion(+)

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -a -m "add difference" добавление разности

[master a593fe3] add difference

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status вывод информации

On branch master

Untracked files:

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

bin/ - выводится

obj/

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Untracked files:

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

Фаил бин уже не выводится после доваления его в .gitignote

.gitignore

obj/ выводится

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git status

On branch master

Untracked files:

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

Не выводится obj

.gitignore

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add .gitignore добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m "git:ignore bin and obj" добавление коммита

[master 1f0ccb3] git:ignore bin and obj

1 file changed, 2 insertions(+)

create mode 100644 .gitignore

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log вывод истории коммитов

commit 1f0ccb300240f8d34c657cdf3745aff90303989d (HEAD -> master)

commit 1f0ccb300240f8d34c657cdf3745aff90303989d (HEAD -> master)

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --stat вывод истории измененных файлов

commit 1f0ccb300240f8d34c657cdf3745aff90303989d (HEAD -> master)

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj

.gitignore | 2 ++

1 file changed, 2 insertions(+)

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

main.cpp | 3 ++-

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

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ

main.cpp | 1 +

1 file changed, 1 insertion(+)

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code

main.cpp | 4 +++-

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

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build

project.cbp | 43 +++++++++++++++++++++++++++++++++++++++++++

1 file changed, 43 insertions(+)

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

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

1 file changed, 9 insertions(+)

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate вывод истории в красивом виде

1f0ccb3 (HEAD -> master) git:ignore bin and obj последний коммит

a593fe3 add difference коммиты и их хэш

7103323 cout summ

f491f7d change code

c28b5ba build

ee6a2e0 code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --oneline --decorate --all --graph показывает коммиты красиво для всех веток

\* 1f0ccb3 (HEAD -> master) git:ignore bin and obj тк у нас одна ветка,то результат тот же

\* a593fe3 add difference хэш коммитов и комментарии к ним

\* 7103323 cout summ

\* f491f7d change code

\* c28b5ba build

\* ee6a2e0 code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log -- main.cpp поиск коммитов затрагивающих main/cpp

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --grep "code:" коммиты ,у которых записано code в комментарии

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log --grep "build" коммиты,у которых в комментарии записано build

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git log -- project.cbp коммиты,связанные с project

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show a593fe316085315022cb6009d1b54b9348e541f9 -показан коммит по хешу

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

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

index 2823a41..c4dcefb 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,6 +7,7 @@ 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;

}

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show master

commit a593fe316085315022cb6009d1b54b9348e541f9 (HEAD -> master) показан последний коммит по имени ветви master

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

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

+/bin

+/obj

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show HEAD показан текущий коммит

commit 1f0ccb300240f8d34c657cdf3745aff90303989d (HEAD -> master)

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj

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

new file mode 100644

index 0000000..4c7473d

--- /dev/null

+++ b/.gitignore

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

+/bin

+/obj

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git show HEAD~1 показан предыдущий коммит

commit a593fe316085315022cb6009d1b54b9348e541f9 - показан коммит по команде HEAD

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

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

index 2823a41..c4dcefb 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,6 +7,7 @@ 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;

}

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff поканы изменения в рабочей копии

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

index c4dcefb..7ce6495 100644

--- a/main.cpp до

+++ b/main.cpp после

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

int a,b; одинаковое

cin>>a>>b;

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

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

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

+ << "A \* B = " <<<'\n'; Добавили

return 0;

}

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff HEAD~2 разница между указанным до последнего

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 2823a41..7ce6495 100644

--- a/main.cpp

+++ b/main.cpp

@@ -7,6 +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'

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

return 0;

}

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff HEAD~2 HEAD~4 разница между первым коммитом,и добавляющи разность

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

index 2823a41..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';

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

return 0;

}

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git diff a593fe316085315022cb6009d1b54b9348e541f9 ee6a2e0d9d6e32fd195a86927d03

1aa0a613045b разница между коммитами по хешу

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

index c4dcefb..b4392ec 100644

--- a/main.cpp

+++ b/main.cpp

@@ -4,10 +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 e066312..0000000

--- a/project.cbp

+++ /dev/null

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add -u добавление коммита

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m "add multiple"

[master 45a5247] add multiple

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard HEAD~1 откат изменений

HEAD is now at 1f0ccb3 git:ignore bin and obj

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout HEAD -- main.cpp откат файла к состояянию в последнем коммтие

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git remote add origin https://github.com/SmetaninAS/cs-lab02.git установление связи с хранилищем

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push -u origin master загрузка проекта в хранилие

Enumerating objects: 18, done.

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

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

Writing objects: 100% (18/18), 2.17 KiB | 130.00 KiB/s, done.

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

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

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

\* [new branch] master -> master

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git fetch загрузка проекта из 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/SmetaninAS/cs-lab02

1f0ccb3..18befe0 master -> origin/master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

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

\* 18befe0 (origin/master) code:multiply 2 ветки ориджин мастер и мастер

\* 1f0ccb3 (HEAD -> master) git:ignore bin and obj мы тут

\* a593fe3 add difference

\* 7103323 cout summ

\* f491f7d change code

\* c28b5ba build

\* ee6a2e0 code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard HEAD откат изменений для передвижения ветки

HEAD is now at 1f0ccb3 git:ignore bin and obj

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git pull --ff-only передвижение ветки мастер к скачанной версии

Updating 1f0ccb3..18befe0

Fast-forward

main.cpp | 3 ++-

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

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

\* 18befe0 (HEAD -> master, origin/master) code:multiply

\* 1f0ccb3 git:ignore bin and obj

\* a593fe3 add difference

\* 7103323 cout summ

\* f491f7d change code

\* c28b5ba build

\* ee6a2e0 code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'code:divine' добавкление коммита с делением

[master d298c86] code:divine

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push загрузка в хранлище

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 368 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/SmetaninAS/cs-lab02.git

18befe0..d298c86 master -> master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git add main.cpp добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git commit -m 'cout maximum' добавление коммита

[master 475fdb4] cout maximum

1 file changed, 4 insertions(+)

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git push загрузка в хранилище

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 389 bytes | 194.00 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/SmetaninAS/cs-lab02.git

d298c86..475fdb4 master -> master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git branch double создание ветки double

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git checkout double переход на созданную ветку

Switched to branch 'double'

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (double)

$ git add main.cpp добавление в инлекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (double)

$ git commit -m 'double ' добавление коммита

[double 0fb2587] double

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (double)

$ git checkout master переход на ветку мастер

Switched to branch 'master'

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

Александр Сергеевич@DESKTOP-EPTKPII MINGW32 /f/lab2/alice/project (master)

$ git pull Скачиване и синхронизация с хранилищем

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/SmetaninAS/lab2

75c6d98..0d06a67 master -> origin/master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

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

\* 0fb2587 (double) double ветка double

| \* 9d20824 (origin/master) cout minimum ветка master

|/

\* 475fdb4 (HEAD -> master) cout maximum коммиты на ветке мастер

\* d298c86 code:divine

\* 18befe0 code:multiply

\* 1f0ccb3 git:ignore bin and obj

\* a593fe3 add difference

\* 7103323 cout summ

\* f491f7d change code

\* c28b5ba build

\* ee6a2e0 code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/alice/project (master)

$ git reset --hard origin/master откат к коммиту на вывод минимума

HEAD is now at 9d20824 cout minimum

Александр Сергеевич@DESKTOP-EPTKPII MINGW32 /f/lab2/alice/project (master)

$ git merge double Слияние веток double u master

Auto-merging main.cpp

Merge made by the 'recursive' strategy.

main.cpp | 2 +-

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

Александр Сергеевич@DESKTOP-EPTKPII MINGW32 /f/lab2/alice/project (master)

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

\* d39fac5 (HEAD -> master) Merge branch 'master' of https://github.com/SmetaninAS/lab2

|\

| \* 0d06a67 (origin/master) cout minimum

\* | eb36b2e (double) int-double

|/

\* 75c6d98 cout maximum

\* d7948e2 cout divine

\* 2cbed6c cout multiply

\* 1e2cc41 gitignore bin and obj

\* aee95fe cout difference

\* c947408 cout summ

\* a94d4d8 build

\* 8be3864 code заготовка программы

# Отчёт по «машине Боба»

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob (master)

$ git clone https://github.com/SmetaninAS/cs-lab02.git project Копирование проекта из репозитария

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.

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob (master) текущая рабочая копия

$ cd project/ изменение рабочей копии на project

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git config user.name 'Bob (SmetaninAS)' -

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git config user.email 'bob@example.com' -настройка репозитария,чтобы коммиты были от лица Боба

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git add main.cpp Добавление в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -m 'code:multiply' Создание коммита

[master 18befe0] code:multiply

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git status вывод информации

On branch master

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

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

Untracked files:

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

main.exe 2 неотсслеживаемых файда

main.o

nothing added to commit but untracked files present (use "git add" to track) не добавлено в коммит но есть неотсл. файлы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log просмотр истории

commit 18befe082c851d75ea0667fded14746dfcb9f1c0 (HEAD -> master)

Author: Bob (SmetaninAS)

Date: Fri Mar 13 11:24:34 2020 +0300

code:multiply последний добавленный на машине боба коммит

commit 1f0ccb300240f8d34c657cdf3745aff90303989d (origin/master, origin/HEAD)

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj коммиты добавленные ещё на машине алисы

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference коммиты добавленные ещё на машине алисы

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ коммиты добавленные ещё на машине алисы

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code коммиты добавленные ещё на машине алисы

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build коммиты добавленные ещё на машине алисы

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы коммиты добавленные ещё на машине алисы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push загрузка кода в хранилище

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/SmetaninAS/cs-lab02.git

1f0ccb3..18befe0 master -> master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log вывод истории

commit 18befe082c851d75ea0667fded14746dfcb9f1c0 (HEAD -> master, origin/master,

origin/HEAD)

Author: Bob (SmetaninAS)

Date: Fri Mar 13 11:24:34 2020 +0300

code:multiply

commit 1f0ccb300240f8d34c657cdf3745aff90303989d

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git fetch загрузка кода из 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/SmetaninAS/cs-lab02

18befe0..d298c86 master -> origin/master

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git pull --ff-only продвижение ветки master к скачанной из хранилища версии

Updating 18befe0..d298c86

Fast-forward

main.cpp | 3 ++-

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git add main.cpp

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git commit -m 'cout minimum' добавление коммита с выводом минимума

[master 4e041fb] cout minimum

1 file changed, 4 insertions(+)

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push загрузка в хранилище невозможна,так как коммит основан не на последнем существующем коммите

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

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

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

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git fetch Загрузка из 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/SmetaninAS/cs-lab02

d298c86..475fdb4 master -> origin/master раздвоение ветки мастер

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git rebase origin/master перемещение коммита поверх origin/master

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

Applying: cout minimum

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 конфликт в main.cpp

error: Failed to merge in the changes. Невозможно слить изменения

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

Patch failed at 0001 cout minimum

Resolve all conflicts manually, mark them as resolved with

"git add/rm ", 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"

.

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master|REBASE 1/1)

$ git add main.cpp после изменений вручную в main.cpp добавляем в индекс

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master|REBASE 1/1)

$ git rebase --continue продолжаем прерванную операцию по перемещению коммита

Applying: cout minimum применилось изменение в поиске минимума для машины боба

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git log вывод истории

commit 9d208244bf1f144b6fcda3a1dd8fe380a36a38d6 (HEAD -> master)

Author: Bob (SmetaninAS)

Date: Fri Mar 13 11:53:00 2020 +0300

cout minimum мининмум

commit 475fdb49f39cfcdc30f44876717adc508e0ebf03 (origin/master, origin/HEAD)

Author: Alice (SmetaninAS)

Date: Fri Mar 13 11:48:24 2020 +0300

cout maximum максимум

commit d298c86bd78082f27f20d09f0a831ea4406d9cd1

Author: Alice (SmetaninAS)

Date: Fri Mar 13 11:42:51 2020 +0300

code:divine деление

commit 18befe082c851d75ea0667fded14746dfcb9f1c0

Author: Bob (SmetaninAS)

Date: Fri Mar 13 11:24:34 2020 +0300

code:multiply умножение

commit 1f0ccb300240f8d34c657cdf3745aff90303989d

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:19:15 2020 +0300

git:ignore bin and obj игнорирование файлов

commit a593fe316085315022cb6009d1b54b9348e541f9

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:10:48 2020 +0300

add difference разность

commit 71033238ac738f102b327ceac2da44ea6e179ca2

Author: Alice (SmetaninAS)

Date: Fri Mar 13 10:01:54 2020 +0300

cout summ сумма

commit f491f7df8fa772fecc0535c5d67b6792d40b66b4

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:56:35 2020 +0300

change code изменения кода

commit c28b5ba9950572445815c76545b04effebf4faee

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:51:44 2020 +0300

build код build

commit ee6a2e0d9d6e32fd195a86927d031aa0a613045b

Author: Alice (SmetaninAS)

Date: Fri Mar 13 09:49:32 2020 +0300

code: заготовка программы

u115-09@PROG-09 MINGW32 ~/Desktop/lab02/bob/project (master)

$ git push загрузка проекта в хранилище

Enumerating objects: 5, done.

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

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

Writing objects: 100% (3/3), 349 bytes | 174.00 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/SmetaninAS/cs-lab02.git

# 475fdb4..9d20824 master -> master