

ВЫПОЛНЕНИЕ

1) Добавление 1.txt

```
C:\Users\vadym\Desktop\git\3_laba>git status
On branch FSE
Your branch is up to date with 'origin/FSE'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    2.txt
    3.txt

C:\Users\vadym\Desktop\git\3_laba>git commit -m "add 1.txt file"
[FSE 91e6b7f] add 1.txt file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1.txt
```

2) Перезапись коммита с добавлением 2.txt и 3.txt

```
C:\Users\vadym\Desktop\git\3_laba>git add 2.txt
C:\Users\vadym\Desktop\git\3_laba>git add 3.txt
C:\Users\vadym\Desktop\git\3_laba>git commit --amend -m "Added 2.txt and 3.txt"
[FSE 61f458b] Added 2.txt and 3.txt
Date: Sun Oct 3 12:45:41 2021 +0300
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1.txt
create mode 100644 2.txt
create mode 100644 3.txt

C:\Users\vadym\Desktop\git\3_laba>git push --force
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 163.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/surai5a/3_laba.git
+ 91e6b7f...61f458b FSE -> FSE (forced update)

C:\Users\vadym\Desktop\git\3_laba>
```

3) Создание новой ветки, создание файла в новой ветке

```
C:\Users\vadym\Desktop\git\3_laba>git branch my_first_branch
C:\Users\vadym\Desktop\git\3_laba>git status
On branch FSE
Your branch is up to date with 'origin/FSE'.

nothing to commit, working tree clean

C:\Users\vadym\Desktop\git\3_laba>git checkout my_first_branch
Switched to branch 'my_first_branch'

C:\Users\vadym\Desktop\git\3_laba>git add .
C:\Users\vadym\Desktop\git\3_laba>git commit -m "Added in_branch.txt"
[my_first_branch 2cdf101] Added in_branch.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 in_branch.txt
```

4) Создание новой ветки

```
C:\Users\vadym\Desktop\git\3_laba>git checkout FSE
Switched to branch 'FSE'
Your branch is up to date with 'origin/FSE'.

C:\Users\vadym\Desktop\git\3_laba>git branch new_branch
C:\Users\vadym\Desktop\git\3_laba>git checkout new_branch
Switched to branch 'new_branch'
```

Отчет №3
по дисциплине “Основы программной инженерии”
Группа: ПИЖ-б-о-20-1, Примаков В. Д

5) Изменение 1.txt и коммит

```
C:\Users\vadym\Desktop\git\3_laba>git add 1.txt  
  
C:\Users\vadym\Desktop\git\3_laba>git commit -m "Added new row in 1.txt"  
[new_branch a8491f9] Added new row in 1.txt  
1 file changed, 2 insertions(+)
```

6) Объединение главной ветки с my_first_branch

```
C:\Users\vadym\Desktop\git\3_laba>git checkout FSE  
Switched to branch 'FSE'  
Your branch is up to date with 'origin/FSE'.  
  
C:\Users\vadym\Desktop\git\3_laba>git merge my_first_branch  
Updating 61f458b..2cdf101  
Fast-forward  
in_branch.txt | 0  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 in_branch.txt  
  
C:\Users\vadym\Desktop\git\3_laba>git push  
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/surai5a/3_laba.git  
61f458b..2cdf101 FSE -> FSE
```

7) Объединение главной ветки с new_branch

```
C:\Users\vadym\Desktop\git\3_laba>git merge new_branch  
Merge made by the 'recursive' strategy.  
1.txt | 2 ++  
1 file changed, 2 insertions(+)  
  
C:\Users\vadym\Desktop\git\3_laba>git push  
Enumerating objects: 4, done.  
Counting objects: 100% (4/4), done.  
Delta compression using up to 2 threads  
Compressing objects: 100% (2/2), done.  
Writing objects: 100% (2/2), 319 bytes | 159.00 KiB/s, done.  
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/surai5a/3_laba.git  
2cdf101..ca4dfbe FSE -> FSE
```

8) Удаление веток my_first_branch и new_branch

```
C:\Users\vadym\Desktop\git\3_laba>git branch -d my_first_branch  
Deleted branch my_first_branch (was 2cdf101).  
  
C:\Users\vadym\Desktop\git\3_laba>git branch -d new_branch  
Deleted branch new_branch (was a8491f9).  
  
C:\Users\vadym\Desktop\git\3_laba>git push  
Everything up-to-date
```

9) Добавление исправлений в 1.txt и 3.txt в ветке branch1

```
C:\Users\vadym\Desktop\git\3_laba>git checkout branch1  
Switched to branch 'branch1'  
  
C:\Users\vadym\Desktop\git\3_laba>git add 1.txt  
  
C:\Users\vadym\Desktop\git\3_laba>git add 3.txt  
  
C:\Users\vadym\Desktop\git\3_laba>git commit -m "Added fixes in 1.txt and 3.txt"  
[branch1 43af5d2] Added fixes in 1.txt and 3.txt  
2 files changed, 2 insertions(+), 2 deletions(-)  
  
C:\Users\vadym\Desktop\git\3_laba>git push  
Enumerating objects: 7, done.  
Counting objects: 100% (7/7), done.  
Delta compression using up to 2 threads  
Compressing objects: 100% (2/2), done.  
Writing objects: 100% (4/4), 411 bytes | 205.00 KiB/s, done.  
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/surai5a/3_laba.git  
ca4dfbe..43af5d2 branch1 -> branch1
```

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- 1) Добавление исправлений в 1.txt и 3.txt в ветке branch2

```
C:\Users\vadym\Desktop\git\3_laba>git checkout branch2
Switched to branch 'branch2'

C:\Users\vadym\Desktop\git\3_laba>git add 1.txt

C:\Users\vadym\Desktop\git\3_laba>git add 3.txt

C:\Users\vadym\Desktop\git\3_laba>git commit -m "Added fixxes in 1.txt and 3.txt"
[branch2 4cc7d37] Added fixxes in 1.txt and 3.txt
 2 files changed, 2 insertions(+), 2 deletions(-)

C:\Users\vadym\Desktop\git\3_laba>git push
fatal: The current branch branch2 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin branch2

C:\Users\vadym\Desktop\git\3_laba>git push
Everything up-to-date
```

- 2) Слияние branch1 и branch2 и устранение конфликтов

```
C:\Users\vadym\Desktop\git\3_laba>git merge branch1
Auto-merging 3.txt
CONFLICT (content): Merge conflict in 3.txt
Auto-merging 1.txt
CONFLICT (content): Merge conflict in 1.txt
Automatic merge failed; fix conflicts and then commit the result.
```

1.txt - Блокнот

Файл Правка Формат Вид Справка

<<<<<< HEAD

fixx 1.txt

=====

fix 1.txt

>>>>>> branch1

```
C:\Users\vadym\Desktop\git\3_laba>git status
On branch branch2
Your branch is up to date with 'origin/branch2'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:   1.txt
    both modified:   3.txt

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

C:\Users\vadym\Desktop\git\3_laba>git add .

C:\Users\vadym\Desktop\git\3_laba>git commit
hint: Waiting for your editor to close the file...
[main 2021-10-03T11:22:36.100Z] update#setState idle
[branch2 ddb3e38] Merge branch 'branch1' into branch2

C:\Users\vadym\Desktop\git\3_laba>
```

- 3) Обмен тегами
- 4) Удаление тегов
- 5) Просмотр содержания коммитов

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- 6) Был удален файл `main.cpp`, сделан коммит. После этого был сделан возврат к предпоследнему коммиту:
- 7) Копирование репозитория с GitHub на BitBucket:

Ссылки на репозитории

Bitbucket - <https://bitbucket.org/surai5a/repo2/src/FSE/>