

```
bonia@MacBook-Pro-Vadim practice3_2 % git branch branch1
git switch branch1
Switched to branch 'branch1'
bonia@MacBook-Pro-Vadim practice3_2 %
```

Создадим и перейдем в branch1.

```
[bonia@MacBook-Pro-Vadim practice3_2 % echo "This is a relevant fact" > file.txt
[bonia@MacBook-Pro-Vadim practice3_2 % git add file.txt
[bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Added file.txt to branch1"
[branch1 9c28fd0] Added file.txt to branch1
1 file changed, 1 insertion(+)
create mode 100644 practice3_2/file.txt
bonia@MacBook-Pro-Vadim practice3_2 %
```

Создадим file.txt с содержимым. Закоммитим.

```
bonia@MacBook-Pro-Vadim practice3_2 % echo "This is an indispensable truth!" > file.txt
dquote>
dquote>
dquote>
bonia@MacBook-Pro-Vadim practice3_2 % git add file.txt
git commit -m "Изменен file.txt в main"
fatal: pathspec 'file.txt' did not match any files
On branch term-2
Your branch is up to date with 'origin/term-2'.
```

Untracked files:

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

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

```
bonia@MacBook-Pro-Vadim practice3_2 %
```

```
bonia@MacBook-Pro-Vadim practice3_2 % git log --oneline --graph --all
```

```
* 9c28fd0 (branch1) Added file.txt to branch1
* b2920e3 (HEAD -> term-2, origin/term-2) Add lab3_1.pdf
* 934692a Merge branch 'mybranch' into term-2
```

```
| \
| * 04de9be (mybranch) Convert greeting to uppercase
| * af5a0bf Add content to greeting.txt
| * 8e28d09 Add file greeting.txt
| * 090ef1d (origin/mybranch) Changed sort.c
| * e28d565 Added pdf
| * 7ce5b2d Added file1.txt
* | f5c7c3b Added file2.txt
| /
```

```
* a5acdba Add new line
* e6e7086 New file sort.c
```

```
[bonia@MacBook-Pro-Vadim practice3_2 % git merge branch1
```

Updating b2920e3..9c28fd0

Fast-forward

```
practice3_2/file.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 practice3_2/file.txt
```

```
[bonia@MacBook-Pro-Vadim practice3_2 % git status
```

On branch term-2

Your branch is ahead of 'origin/term-2' by 1 commit.

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

Untracked files:

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

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

```
bonia@MacBook-Pro-Vadim practice3_2 %
```

```

[bonia@MacBook-Pro-Vadim practice3_2 % git add file.txt
[bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Updated file.txt"
[term-2 35ec1cd] Updated file.txt
 1 file changed, 1 insertion(+), 1 deletion(-)
[bonia@MacBook-Pro-Vadim practice3_2 % git status
On branch term-2
Your branch is ahead of 'origin/term-2' by 2 commits.
  (use "git push" to publish your local commits)

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

nothing added to commit but untracked files present (use "git add" to track)
bonia@MacBook-Pro-Vadim practice3_2 % git push origin term-2
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 693 bytes | 693.00 KiB/s, done.
Total 8 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 2 local objects.
To https://github.com/vadimpopov1/C-Programming.git
   b2920e3..35ec1cd  term-2 -> term-2
bonia@MacBook-Pro-Vadim practice3_2 % █

```

Исправляем проблему и пушим.

```

bonia@MacBook-Pro-Vadim practice3_2 % nano mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git add mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Added mergesort.py"
[term-2 d441a52] Added mergesort.py
 1 file changed, 4 insertions(+)
 create mode 100644 practice3_2/mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git branch Mergesort-Impl
bonia@MacBook-Pro-Vadim practice3_2 % git switch Mergesort-Impl
Switched to branch 'Mergesort-Impl'
bonia@MacBook-Pro-Vadim practice3_2 % █

```

Создадим mergesort.py с необходимым содержимым, проиндексируем и закоммитим.
Создадим новую ветку и переключимся в нее.

```

bonia@MacBook-Pro-Vadim practice3_2 % nano mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git add mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Update mergesort.py"
[Mergesort-Impl c9e736b] Update mergesort.py
 1 file changed, 44 insertions(+), 3 deletions(-)
bonia@MacBook-Pro-Vadim practice3_2 % █

```

Изменим mergesort.py и закоммитим.

```

bonia@MacBook-Pro-Vadim practice3_2 % nano mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git add mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Update mergesort.py"
[term-2 a32009b] Update mergesort.py
1 file changed, 44 insertions(+), 3 deletions(-)
bonia@MacBook-Pro-Vadim practice3_2 % git log --oneline --graph
* a32009b (HEAD -> term-2) Update mergesort.py
* d441a52 Added mergesort.py
* 35ec1cd (origin/term-2) Updated file.txt
* 9c28fd0 (branch1) Added file.txt to branch1
* b2920e3 Add lab3_1.pdf
* 934692a Merge branch 'mybranch' into term-2
| \
| * 04de9be (mybranch) Convert greeting to uppercase
| * af5a0bf Add content to greeting.txt
| * 8e28d09 Add file greeting.txt
| * 090ef1d (origin/mybranch) Changed sort.c
| * e28d565 Added pdf
| * 7ce5b2d Added file1.txt
* | f5c7c3b Added file2.txt
| /
* a5acdba Add new line
* e6e7086 New file sort.c

```

Внесем все необходимые изменения и посмотрим лог. Видно историю коммитов в term-2 и mergesort-impl.

```

bonia@MacBook-Pro-Vadim practice3_2 % git branch
Mergesort-Impl
branch1
mybranch
term-1
* term-2
bonia@MacBook-Pro-Vadim practice3_2 % git switch term-2
Already on 'term-2'
Your branch is ahead of 'origin/term-2' by 2 commits.
(use "git push" to publish your local commits)
bonia@MacBook-Pro-Vadim practice3_2 % git merge Mergesort-Impl
Auto-merging practice3_2/mergesort.py
CONFLICT (content): Merge conflict in practice3_2/mergesort.py
Automatic merge failed; fix conflicts and then commit the result.
bonia@MacBook-Pro-Vadim practice3_2 %

```

Виден конфликт.


```
bonia@MacBook-Pro-Vadim practice3_2 % nano mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git merge Mergesort-Impl
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
bonia@MacBook-Pro-Vadim practice3_2 % git add mergesort.py
bonia@MacBook-Pro-Vadim practice3_2 % git commit -m "Fixed"
[term-2 dd0c819] Fixed
bonia@MacBook-Pro-Vadim practice3_2 % git push origin term-2
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 8 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (16/16), 1.82 KiB | 1.82 MiB/s, done.
Total 16 (delta 11), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (11/11), completed with 2 local objects.
To https://github.com/vadimpopov1/C-Programming.git
   35ec1cd..dd0c819  term-2 -> term-2
bonia@MacBook-Pro-Vadim practice3_2 %
```

После исправление конфликта коммитим и пушим.