

## 02. Git

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## REPOZYTORIUM LOKALNE

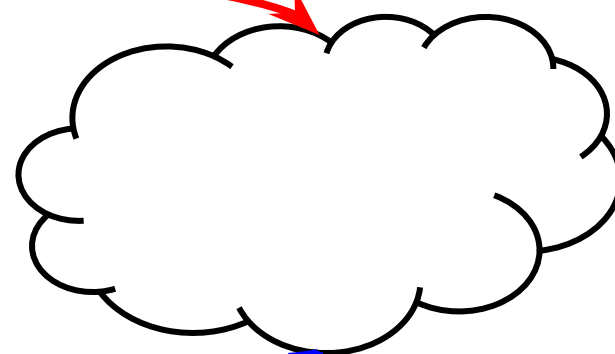
## REPOZYTORIUM ZDALNE



**Bitbucket**



**git push**



**git pull**  
**git clone**



**git init**



**.git**

**git-project**

- index.html
- app.js
- README.md

**git add index.html**



index.html

**git-project**

- index.html
- app.js
- README.md

**git add .**



index.html  
app.js  
README.md

**git-project**

- index.html
- app.js
- README.md

**git commit -m "initial commit"**



*initial commit*

index.html  
app.js  
README.md

**git remote -v**

**git remote add origin [adres\_repozytorium]**



**.git**

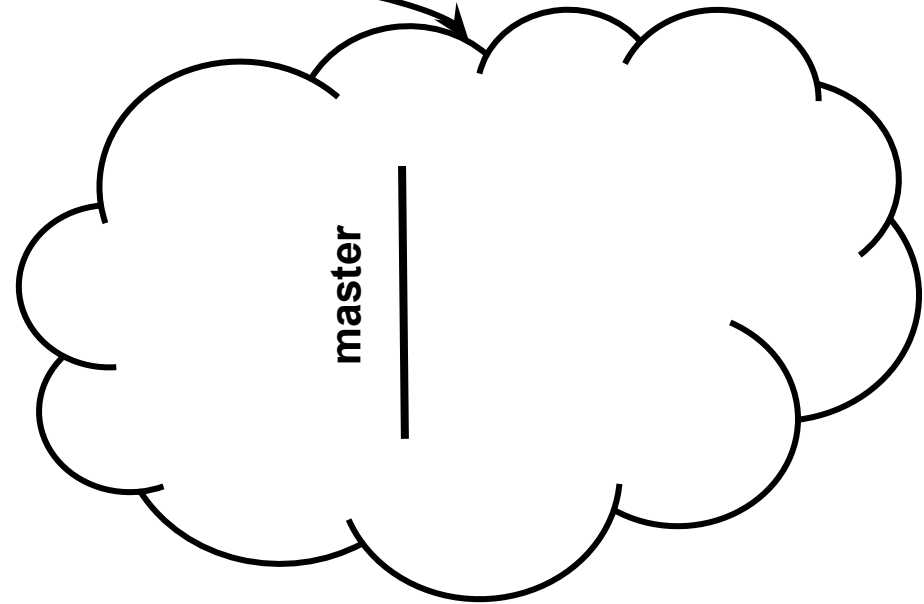
**git push origin master**



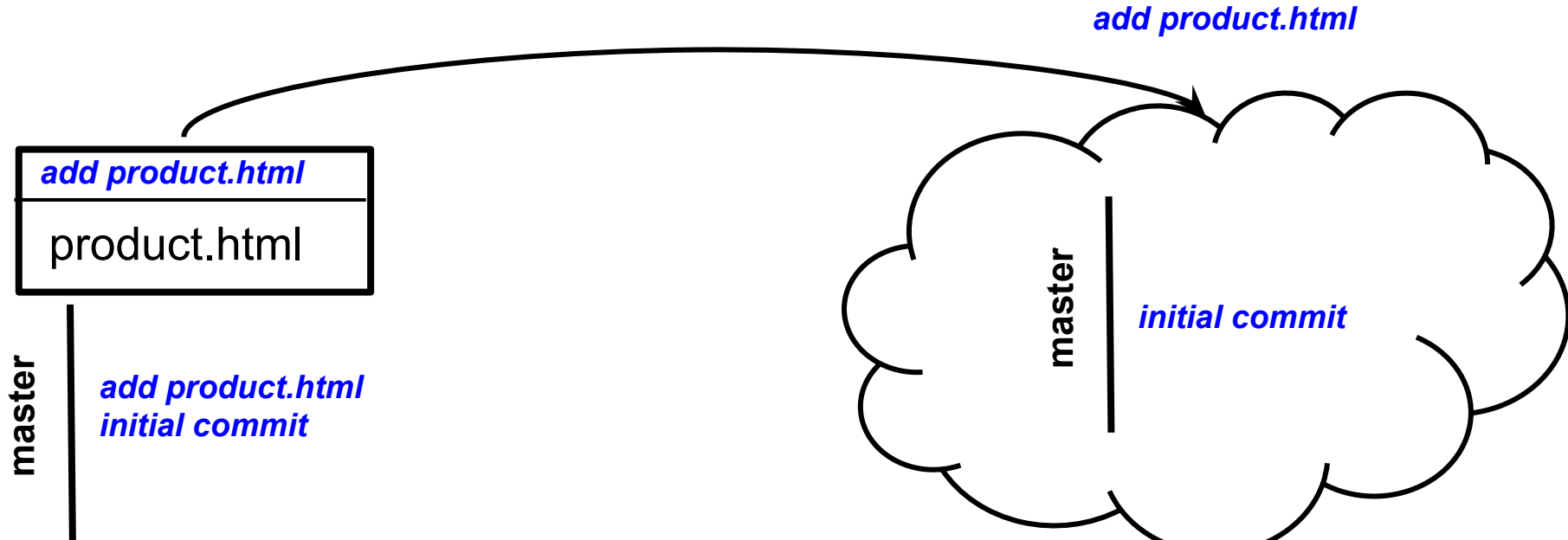
**master**

*initial commit*

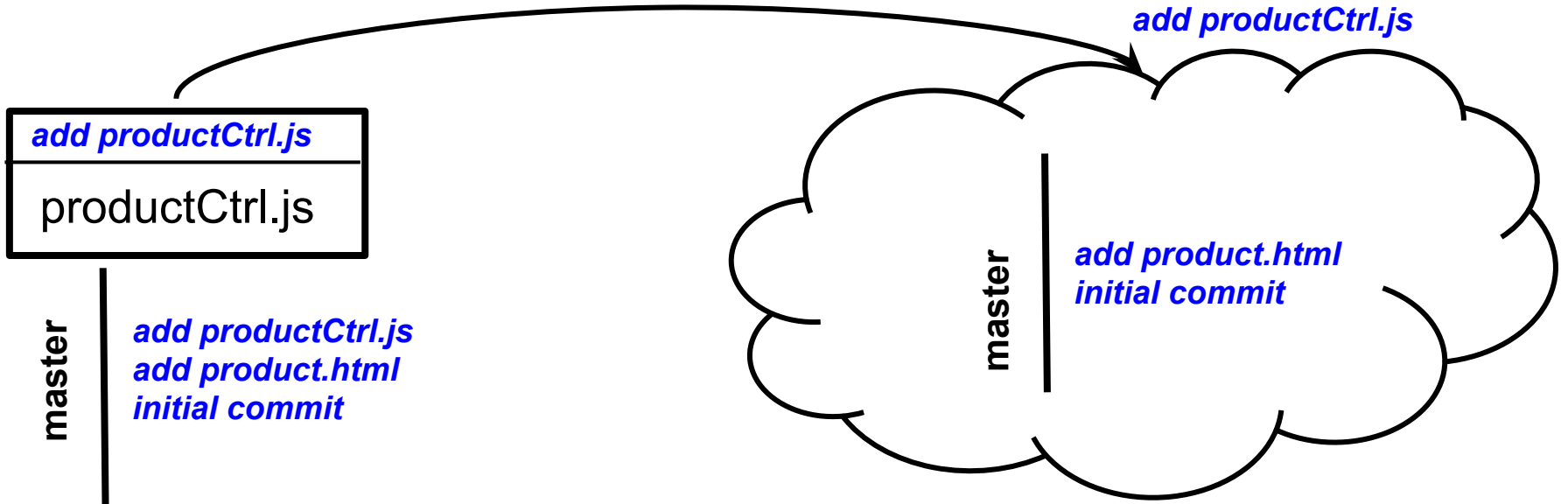
*initial commit*



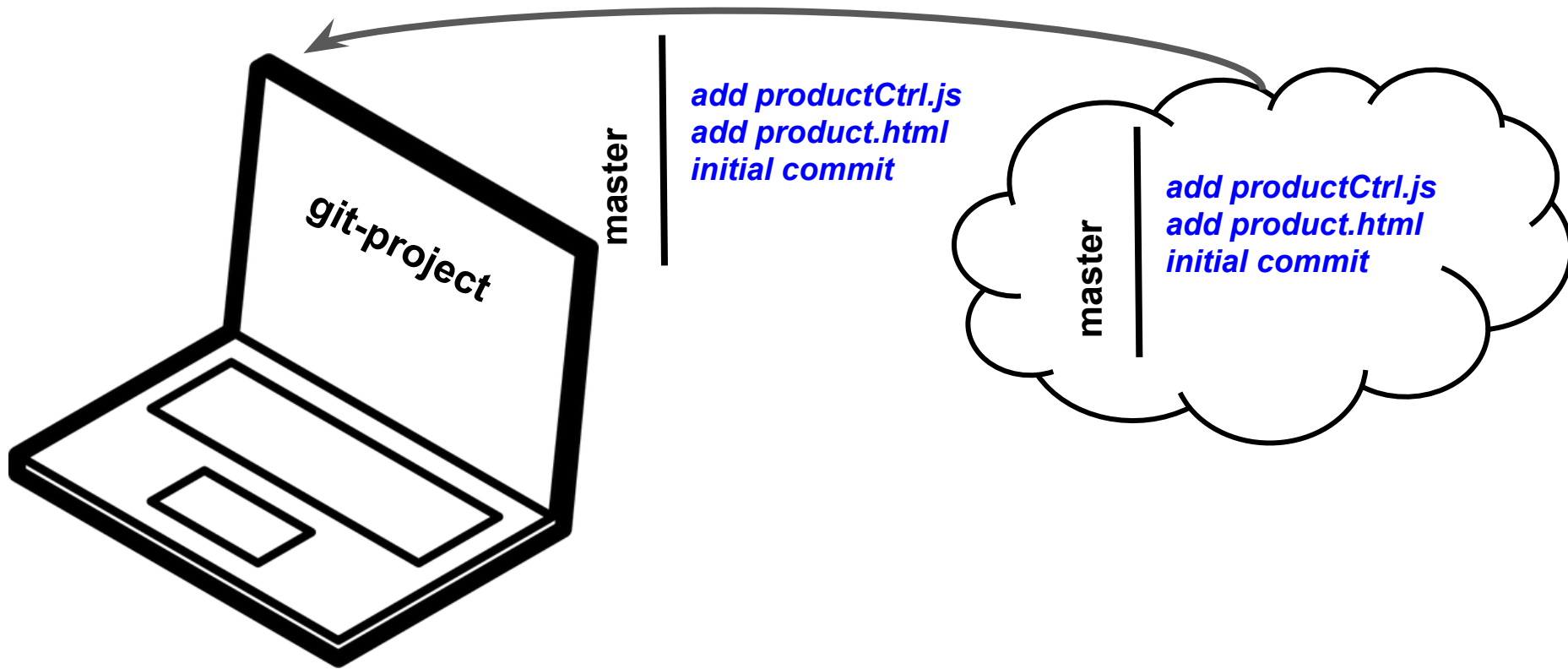
git push origin master

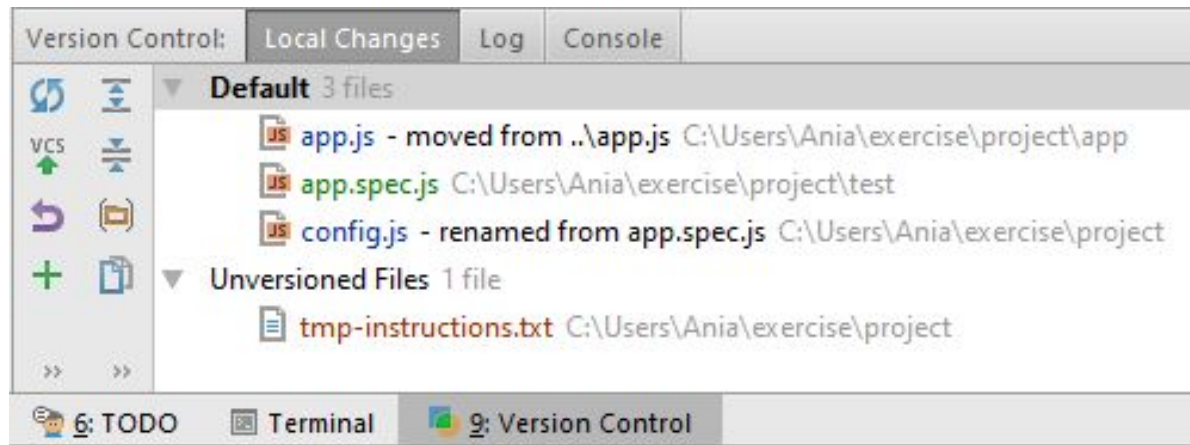


git push origin master



**git clone https://github.com/username/repository\_name.git**





## git status - IntelliJ IDEA

```
C:\Users\Ania\exercise\project>git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        renamed:    app.js -> app/app.js
        renamed:    app.spec.js -> config.js
        new file:   test/app.spec.js

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

        tmp-instructions.txt
```

## git status

## git log

```
C:\Users\Ania\exercise\project>git log

commit 3e281f00634edebb6fa2ecafb0f3267b54e52532
Author: aniaw <ania_w@outolook.com>
Date:   Sat Feb 27 14:18:05 2016 +0100

    add app.spec.js

commit 23c05085affe00e4d9beec45d944109e7b849e52
Author: aniaw <ania_w@outolook.com>
Date:   Sat Feb 27 13:48:43 2016 +0100

    add app.js

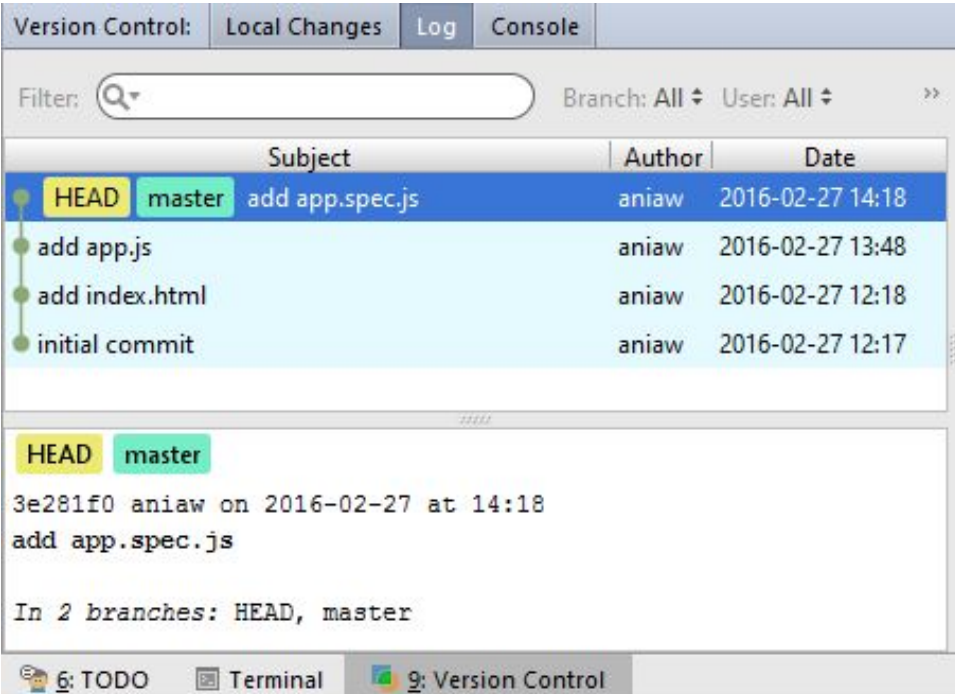
commit 474e529e569332a037afeaf2fd50e77be6e6ea09
Author: aniaw <ania_w@outolook.com>
Date:   Sat Feb 27 12:18:27 2016 +0100

    add index.html

commit a09edccfca40202b5cc64a2e583a50a74d5fc7d5
Author: aniaw <ania_w@outolook.com>
Date:   Sat Feb 27 12:17:46 2016 +0100

    initial commit
```

## git log - IntelliJ IDEA



The screenshot shows the IntelliJ IDEA interface with the 'Version Control' tab selected. The 'Log' sub-tab is active, displaying a list of commits. The commits are ordered from top to bottom: 'add app.spec.js', 'add app.js', 'add index.html', and 'initial commit'. The 'HEAD' branch is highlighted in yellow, and the 'master' branch is highlighted in green. The commit details for the selected commit (3e281f0) are shown below the list, including the author (aniaw) and the date (2016-02-27 at 14:18). The commit message 'add app.spec.js' is also displayed. At the bottom, it indicates 'In 2 branches: HEAD, master'.

Subject	Author	Date
HEAD master add app.spec.js	aniaw	2016-02-27 14:18
add app.js	aniaw	2016-02-27 13:48
add index.html	aniaw	2016-02-27 12:18
initial commit	aniaw	2016-02-27 12:17

3e281f0 aniaw on 2016-02-27 at 14:18  
add app.spec.js

In 2 branches: HEAD, master



## git log --oneline

```
831fc35 getDescendingNumbers function
33f1d23 refactoring
3e281f0 add app.spec.js
23c0508 add app.js
474e529 add index.html
a09edcc initial commit
```

## git log --oneline --graph --decorate --all

```
C:\Users\Ania\Desktop\project>git log --oneline --graph --decorate
* 831fc35 (HEAD -> master, origin/master, origin/HEAD) getDescendingNumbers function
* 33f1d23 refactoring
* 3e281f0 add app.spec.js
* 23c0508 add app.js
* 474e529 add index.html
* a09edcc initial commit
```

## git commit

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   new file:   index.html
#
```



```
add index.html
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   new file:   index.html
#
```

**git config --global core.editor "nazwa\_edytora"**

# Aktualizacja nazwy / zawartości ostatniego commita

## **git commit - m “modify files”**

7929ee0 modify files

831fc35 getDescendingNumbers function

33f1d23 refactoring

3e281f0 add app.spec.js

23c0508 add app.js

474e529 add index.html

a09edcc initial commit

## **git commit --amend - m “modify .gitignore”**

bfbe322 modify .gitignore

831fc35 getDescendingNumbers function

33f1d23 refactoring

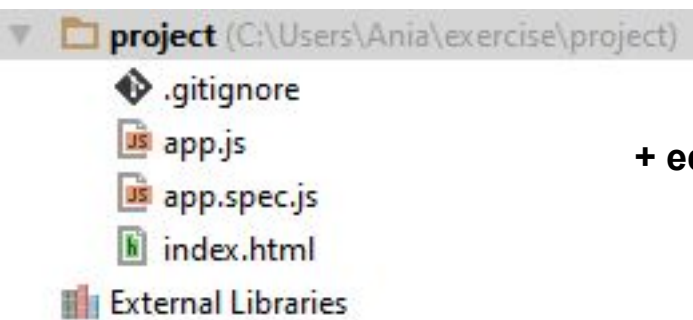
3e281f0 add app.spec.js

23c0508 add app.js

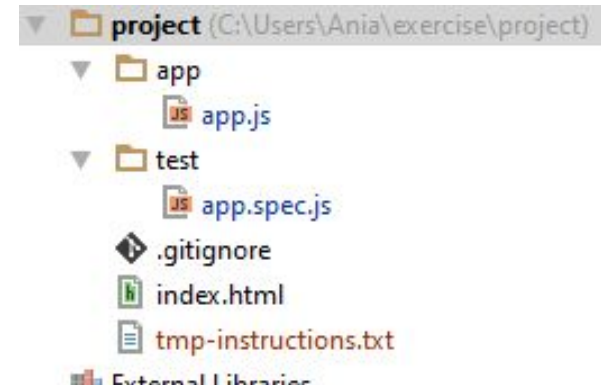
474e529 add index.html

a09edcc initial commit

# Cofanie plików z poczekalni



refaktoryzacja projektu  
+ edycja plików app.js i app.spec.js



```
C:\Users\Ania\exercise\project>git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
renamed:    app.js -> app/app.js
```

```
renamed:    app.spec.js -> test/app.spec.js
```

```
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:   app/app.js
```

```
modified:   test/app.spec.js
```

```
Untracked files:
```

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

```
tmp-instructions.txt
```

```
C:\Users\Ania\exercise\project>git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
renamed:    app.js -> app/app.js
renamed:    app.spec.js -> test/app.spec.js
```

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:   app/app.js
modified:   test/app.spec.js
```

Untracked files:

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

```
tmp-instructions.txt
```

```
C:\Users\Ania\exercise\project>git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
renamed:    app.js -> app/app.js
renamed:    app.spec.js -> test/app.spec.js
```

Untracked files:

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

```
tmp-instructions.txt
```

**git add .**



```
C:\Users\Ania\exercise\project>git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
renamed:    app.spec.js -> app/app.js
renamed:    app.js -> test/app.spec.js
new file:    tmp-instructions.txt
```



**git reset HEAD tmp-instructions.txt.**

# .gitignore

```
# Compiled source #
#####

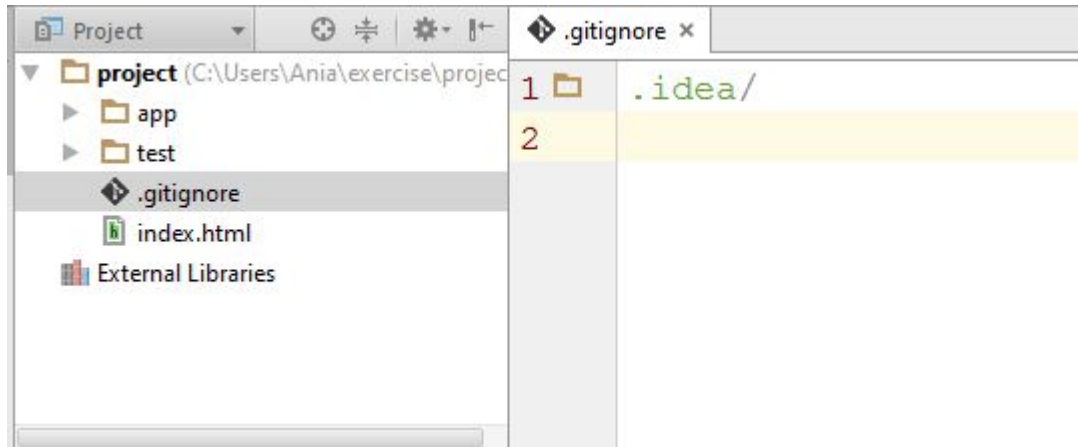
*.com
*.class
*.dll
*.exe
*.o
*.so
```

```
# Logs and databases #
#####

*.log
*.sql
*.sqlite
```

```
# OS generated files
#####
```

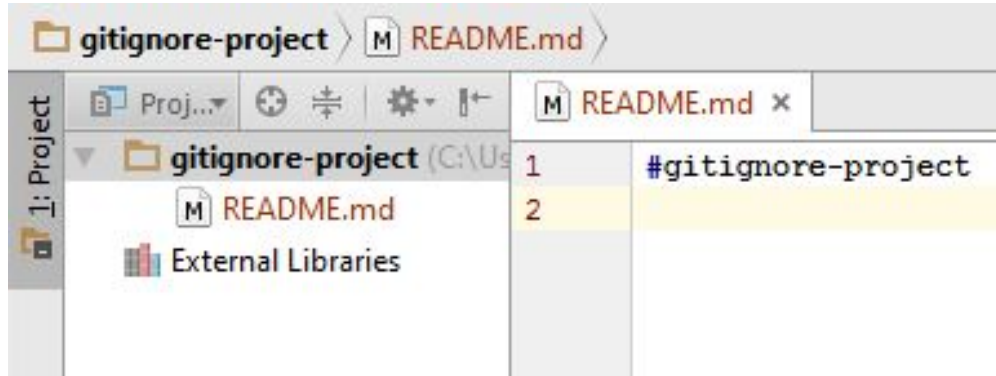
```
.DS_Store
.DS_Store?
.*
.Spotlight-V100
.Trashes
ehthumbs.db
Thumbs.db
```



# **.gitignore**

- **\*.class** -> wszystkie pliki z rozszerzeniem **.class**
- **app/\*.js** -> wszystkie pliki **.js** znajdujące się w folderze **app**
- **app/\*\*/\*.html** -> wszystkie pliki **.html** znajdujące się w folderze lub podfolderach **app**
- **!app/car/\*.js** -> pliki **.js** z folderu **app/car** nie będą ignorowane

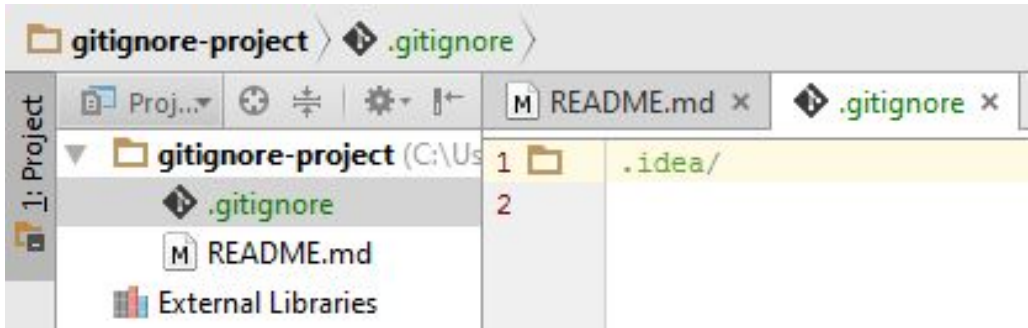
# Co zrobić po “zacommitowaniu” i wypchnięciu plików, które powinny zostać zignorowane?



**git add .**  
**git commit -m “initial commit”**  
**git push origin master**

aniaw add gitignore		Latest commit 26723b3 32 seconds ago
.idea	initial commit	3 minutes ago
README.md	initial commit	3 minutes ago





**git add .**  
**git commit -m “add .gitignore”**  
**git push origin master**

Branch: master New pull request New file Upload files Find file HTTPS https://github.com/aniaw/ Download ZIP

aniaw add gitignore

Latest commit 26723b3 32 seconds ago

.idea	initial commit	3 minutes ago
.gitignore	add gitignore	32 seconds ago
README.md	initial commit	3 minutes ago

# git rm --cached .idea/\*

```
C:\Users\Ania\exercise\gitignore-project>git rm --cached .idea/*  
rm '.idea/.name'  
rm '.idea/encodings.xml'  
rm '.idea/gitignore-project.iml'  
rm '.idea/misc.xml'  
rm '.idea/modules.xml'  
rm '.idea/vcs.xml'  
rm '.idea/workspace.xml'
```

**git add .**  
**git commit -m “clean ignore folder”**  
**git push origin master**



aniaw clean ignore folder

Latest commit a3c3283 2 minutes ago



.gitignore

add gitignore

30 minutes ago



README.md

initial commit

33 minutes ago

Commits on Feb 27, 2016



**clean ignore folder**

aniaw committed 3 minutes ago



a3c3283



**add gitignore**

aniaw committed 31 minutes ago



26723b3



**initial commit**

aniaw committed 33 minutes ago



fc6f8f9



# Zmiany w plikach, które znajdują się już w poczekalni.



```
C:\Users\Ania\exercise\project>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:   app/app.js
```

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

```
C:\Users\Ania\exercise\project>git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

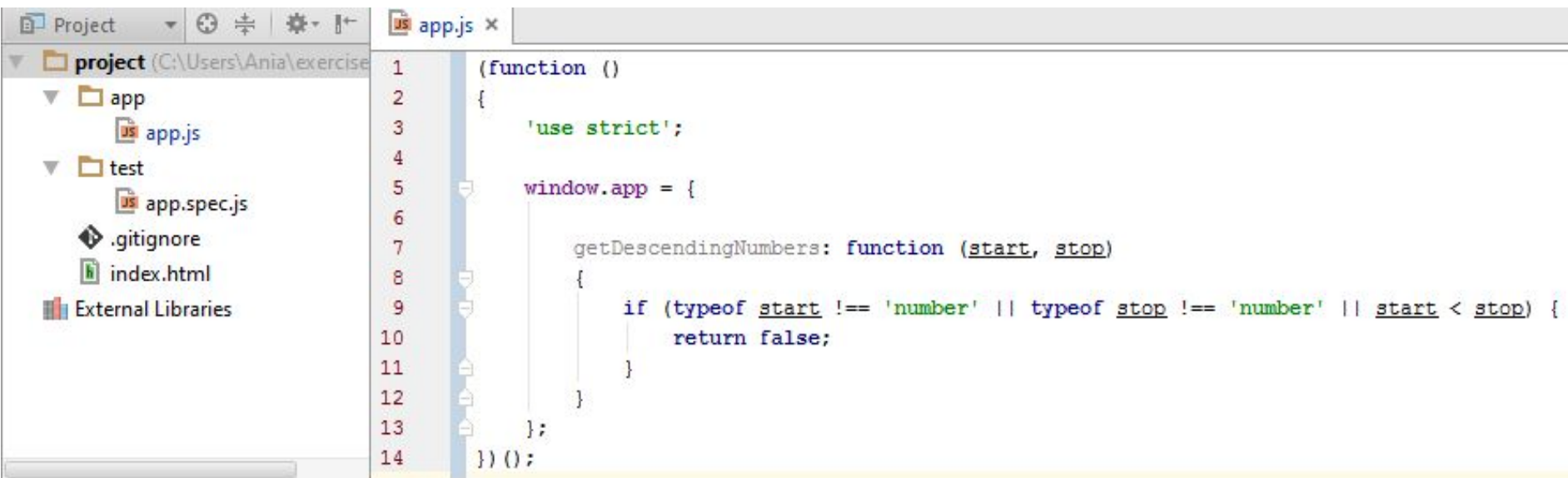
```
modified:   app/app.js
```



**git add app\app.js**

lub

**git add .**



The screenshot shows a code editor with a project structure on the left and a JavaScript file named `app.js` open in the main editor. The project structure includes a `project` folder containing `app` and `test` subfolders, along with `app.spec.js`, `.gitignore`, and `index.html`. The `app.js` file contains the following code:

```
1 (function ()
2 {
3     'use strict';
4
5     window.app = {
6
7         getDescendingNumbers: function (start, stop)
8         {
9             if (typeof start !== 'number' || typeof stop !== 'number' || start < stop) {
10                 return false;
11             }
12         }
13     };
14 }) ();
```

```
C:\Users\Ania\exercise\project>git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
modified:   app/app.js
```

```
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:   app/app.js
```

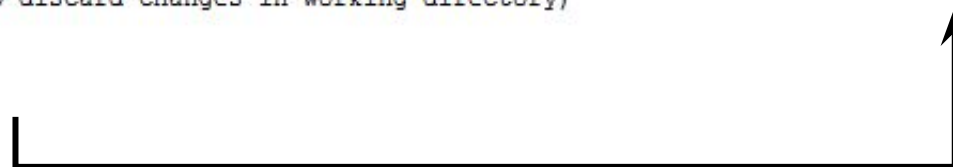
```
C:\Users\Ania\exercise\project>git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
modified:   app/app.js
```



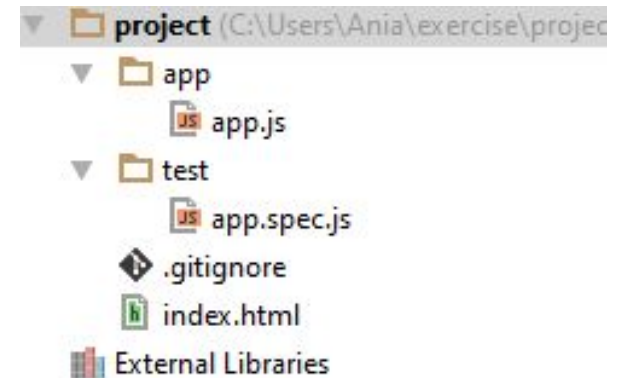
**git add app\app.js**

lub

**git add .**

# Wskaźnik HEAD

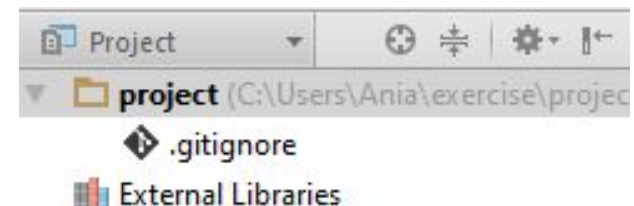
Version Control: Local Changes Log Console				
Filter: <input type="text"/> Branch: All User: All Date: All >>				
Subject		Author	Date	
HEAD	master	getDescendingNumbers function	aniaw	2016-02-27 16:00
		refactoring	aniaw	2016-02-27 15:15
		add app.spec.js	aniaw	2016-02-27 14:18
		add app.js	aniaw	2016-02-27 13:48
		add index.html	aniaw	2016-02-27 12:18
		initial commit	aniaw	2016-02-27 12:17



## git checkout :/"initial commit"

```
C:\Users\Ania\exercise\project>git checkout :/"initial commit"  
HEAD is now at a09edcc... initial commit
```

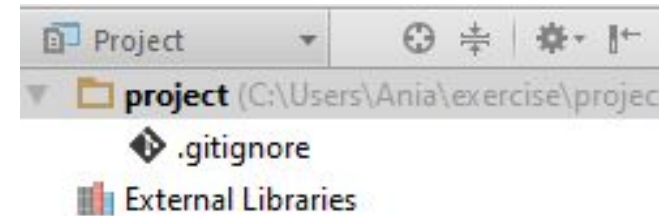
Version Control: Local Changes Log Console				
Filter: <input type="text"/> Branch: All User: All Date: All >>				
Subject		Author	Date	
	master	getDescendingNumbers function	aniaw	2016-02-27 16:00
		refactoring	aniaw	2016-02-27 15:15
		add app.spec.js	aniaw	2016-02-27 14:18
		add app.js	aniaw	2016-02-27 13:48
		add index.html	aniaw	2016-02-27 12:18
HEAD		initial commit	aniaw	2016-02-27 12:17



```
C:\Users\Ania\exercise\project>git status  
HEAD detached at a09edcc  
nothing to commit, working directory clean
```



Version Control: Local Changes Log Console			
Filter: <input type="text"/> Branch: All <input type="text"/> User: All <input type="text"/> Date: All <input type="text"/> >>			
Subject	Author	Date	
master getDescendingNumbers function	aniaw	2016-02-27 16:00	
refactoring	aniaw	2016-02-27 15:15	
add app.spec.js	aniaw	2016-02-27 14:18	
add app.js	aniaw	2016-02-27 13:48	
add index.html	aniaw	2016-02-27 12:18	
HEAD initial commit	aniaw	2016-02-27 12:17	



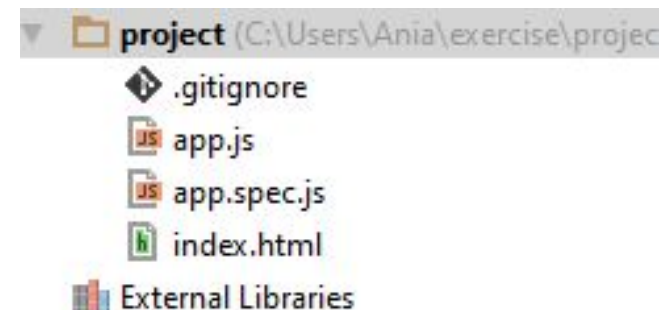
## git checkout 3e281f0

Version Control: Local Changes Log Console			
Filter: <input type="text"/> Branch: All <input type="text"/> User: All <input type="text"/> Date: All <input type="text"/> >>			
Subject	Author	Date	
master getDescendingNumbers function	aniaw	2016-02-27 16:00	
refactoring	aniaw	2016-02-27 15:15	
HEAD add app.spec.js	aniaw	2016-02-27 14:18	
add app.js	aniaw	2016-02-27 13:48	
add index.html	aniaw	2016-02-27 12:18	
initial commit	aniaw	2016-02-27 12:17	

<b>HEAD</b>
3e281f0 aniaw on 2016-02-27 at 14:18
add app.spec.js
In 2 branches: HEAD, master

```
C:\Users\Ania\exercise\project>git checkout 3e281f0
Previous HEAD position was a09edcc... initial commit
HEAD is now at 3e281f0... add app.spec.js
```



# git branch

```
C:\Users\Ania\exercise\project>git branch
* master
```

6 commits

1 branch

0 releases

0 contributors

Branch: master

New pull request

New file

Upload files

Find file

HTTPS

https://github.com/aniaw/



Download ZIP

aniaw getDescendingNumbers function

Latest commit 831fc35 19 hours ago

app	getDescendingNumbers function	19 hours ago
test	refactoring	20 hours ago
.gitignore	initial commit	23 hours ago
index.html	add index.html	23 hours ago

Version Control:			Local Changes	Log
Filter: <input type="text"/>			Branch: All User: All Date: All Paths: All >>	
	Subject	Author	Date	
HEAD master origin/master	getDescendingNumbers function	aniaw	2016-02-27 16:00	
	refactoring	aniaw	2016-02-27 15:15	
	add app.spec.js	aniaw	2016-02-27 14:18	
	add app.js	aniaw	2016-02-27 13:48	
	add index.html	aniaw	2016-02-27 12:18	
	initial commit	aniaw	2016-02-27 12:17	

## git branch user

*git branch nazwa\_nowego\_brancha*

Version Control: Local Changes Log

Filter:

Branch: All User: All Date: All Paths: All >>

	Subject	Author	Date
HEAD master user origin/master	getDescendingNumbers funct	aniaw	2016-02-27 16:00
refactoring		aniaw	2016-02-27 15:15
add app.spec.js		aniaw	2016-02-27 14:18
add app.js		aniaw	2016-02-27 13:48
add index.html		aniaw	2016-02-27 12:18
initial commit		aniaw	2016-02-27 12:17

```
C:\Users\Ania\exercise\project>git status
```

```
On branch master
```

```
nothing to commit, working directory clean
```

## git checkout user

*git checkout nazwa\_brancha*

```
C:\Users\Ania\exercise\project>git checkout user
```

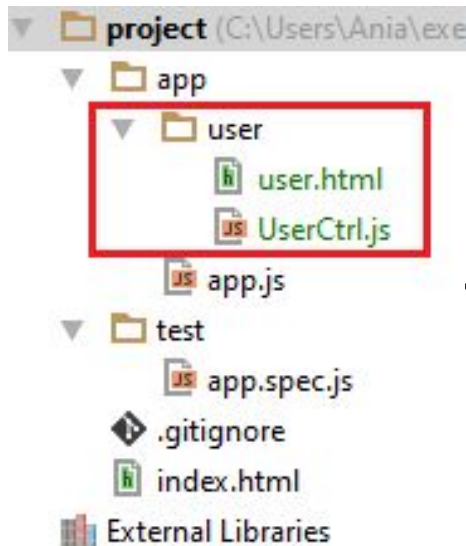
```
Switched to branch 'user'
```

```
C:\Users\Ania\exercise\project>git status
```

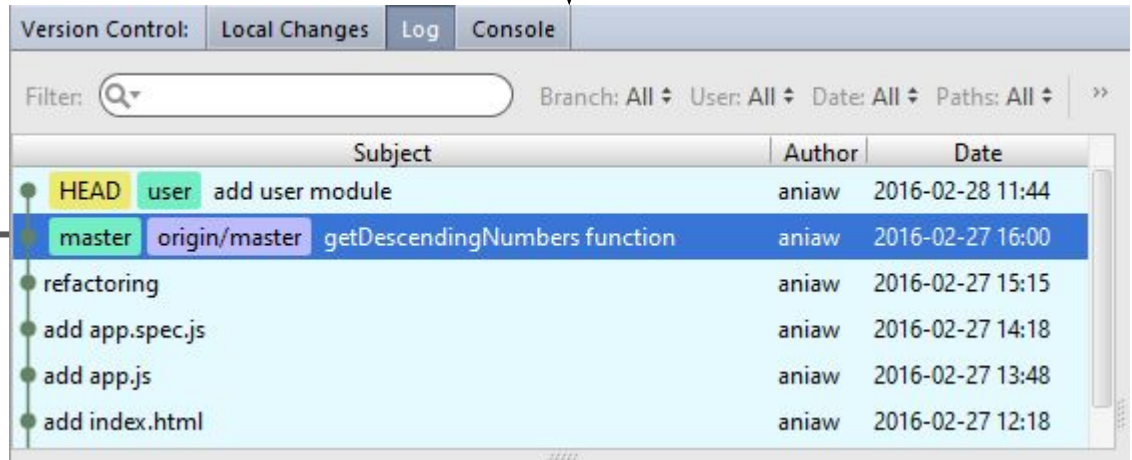
```
On branch user
```

```
nothing to commit, working directory clean
```

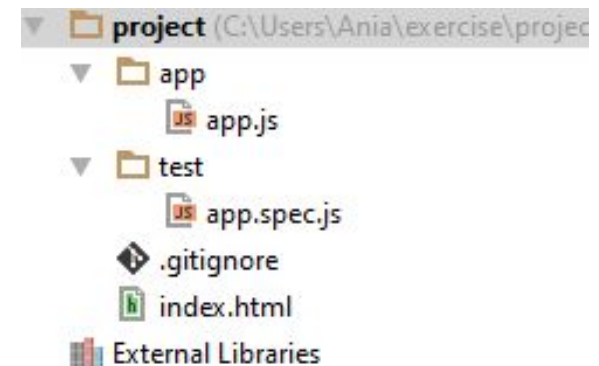
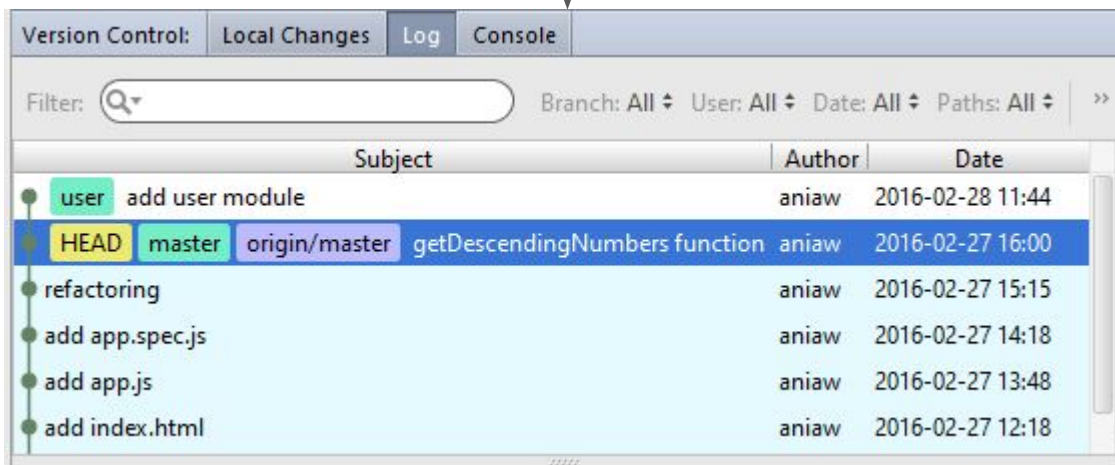




**git add .**  
**git commit -m "add user module"**



**git checkout master**

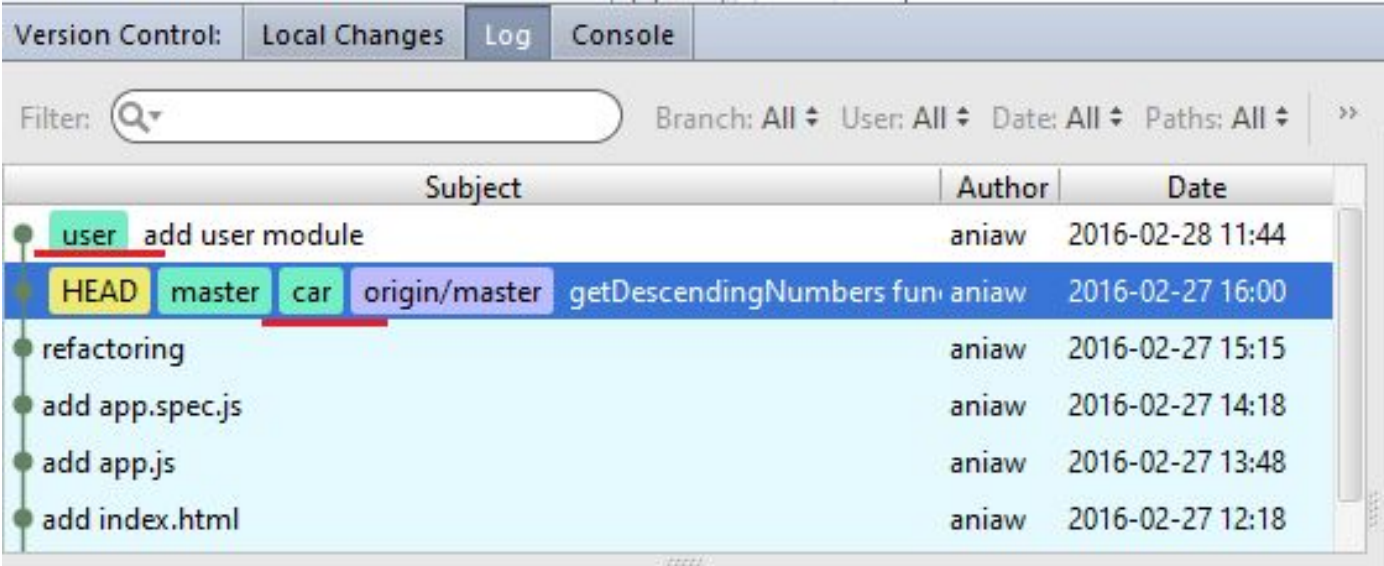


## git checkout -b car

*git checkout -b nazwa\_nowego\_brancha*

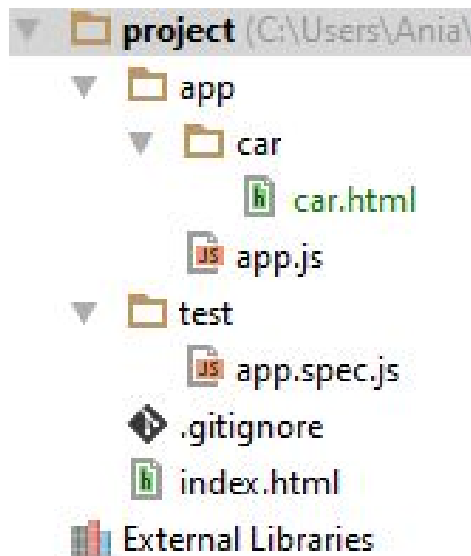
```
C:\Users\Ania\exercise\project>git checkout -b car  
Switched to a new branch 'car'
```

```
C:\Users\Ania\exercise\project>git status  
On branch car  
nothing to commit, working directory clean
```

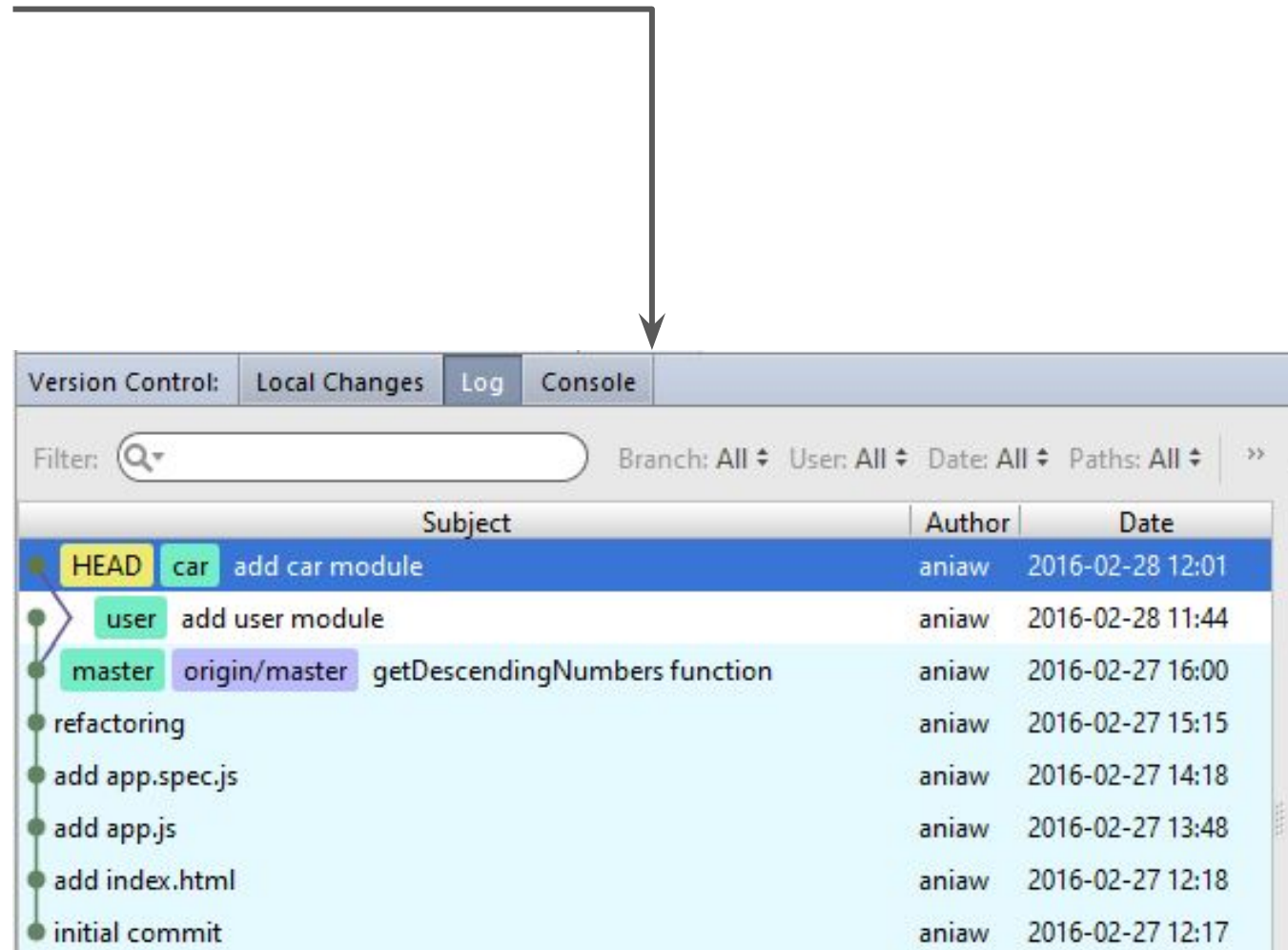


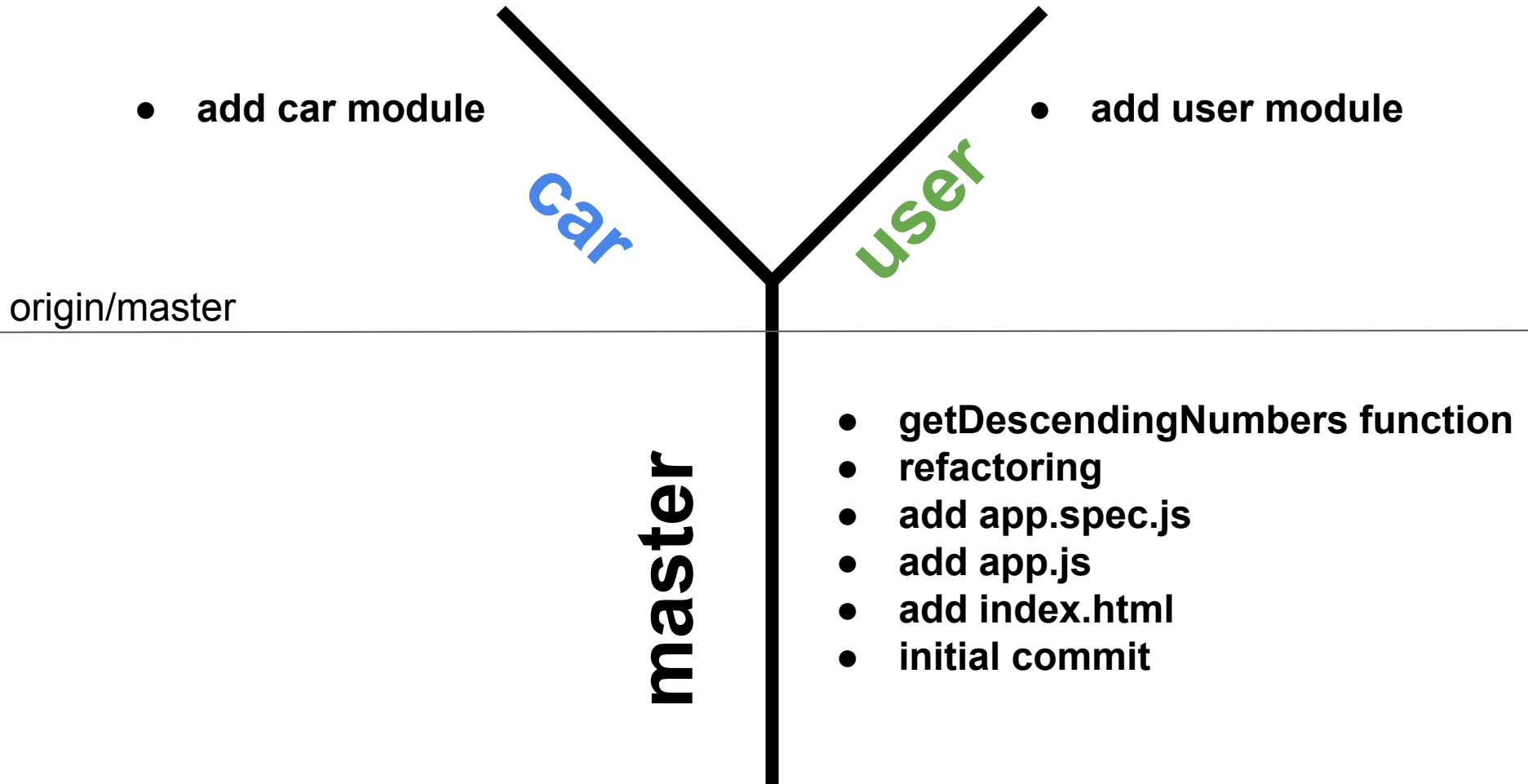
The screenshot shows the Git GUI interface with the 'Log' tab selected. The commit history is displayed in a table with columns for Subject, Author, and Date. The 'car' branch is highlighted in red, and the 'HEAD' is also highlighted in red. The commit history shows a sequence of commits starting from 'add index.html' up to 'add user module'.

Subject	Author	Date
add user module	aniaw	2016-02-28 11:44
getDescendingNumbers fun	aniaw	2016-02-27 16:00
refactoring	aniaw	2016-02-27 15:15
add app.spec.js	aniaw	2016-02-27 14:18
add app.js	aniaw	2016-02-27 13:48
add index.html	aniaw	2016-02-27 12:18



**git add .**  
**git commit -m "add car module"**





Version Control: Local Changes Log Console			
Filter: <input type="text"/> Branch: All User: All Date: All Paths: All >>			
	Subject	Author	Date
HEAD car	add car module	aniaw	2016-02-28 12:01
user	add user module	aniaw	2016-02-28 11:44
master origin/master	getDescendingNumbers function	aniaw	2016-02-27 16:00
refactoring		aniaw	2016-02-27 15:15
add app.spec.js		aniaw	2016-02-27 14:18
add app.js		aniaw	2016-02-27 13:48
add index.html		aniaw	2016-02-27 12:18
initial commit		aniaw	2016-02-27 12:17

git push  
origin car

Version Control: Local Changes Log Console			
Filter: <input type="text"/> Branch: All User: All Date: All Paths: All >>			
	Subject	Author	Date
HEAD car origin/car	add car module	aniaw	2016-02-28 12:01
user	add user module	aniaw	2016-02-28 11:44
master origin/master	getDescendingNumbers function	aniaw	2016-02-27 16:00
refactoring		aniaw	2016-02-27 15:15
add app.spec.js		aniaw	2016-02-27 14:18
add app.js		aniaw	2016-02-27 13:48
add index.html		aniaw	2016-02-27 12:18
initial commit		aniaw	2016-02-27 12:17

car (3 minutes ago)

Branch: master

Switch branches/tags

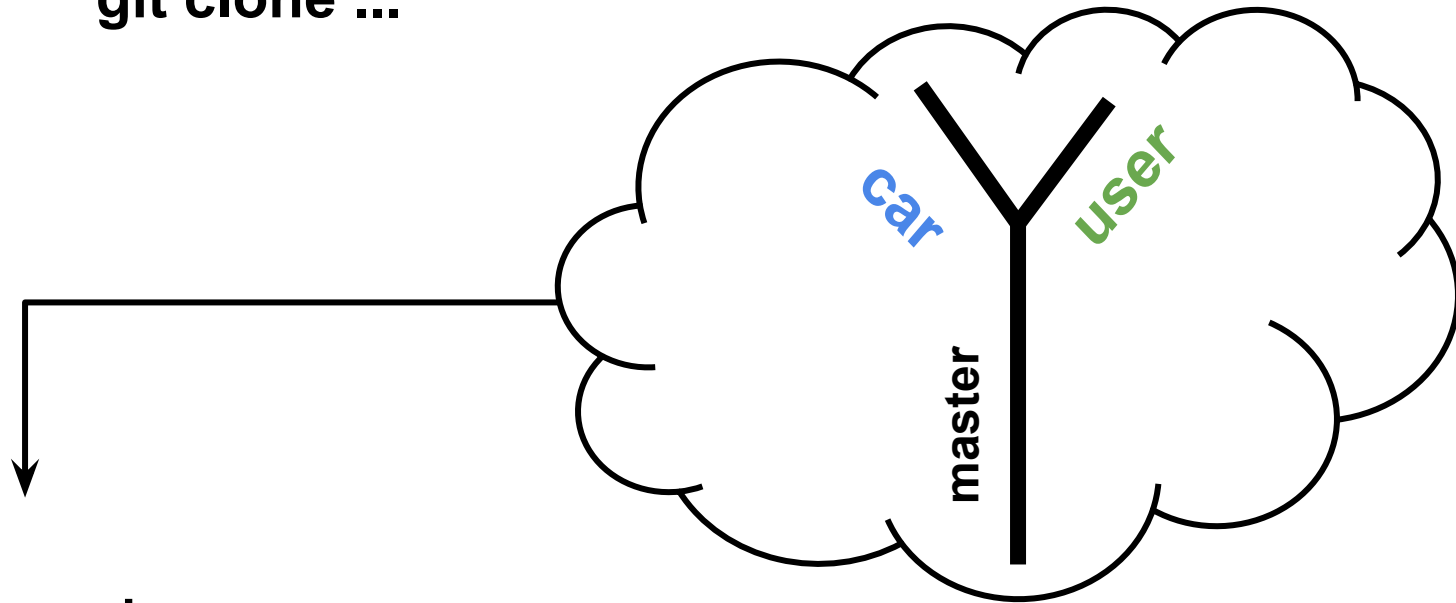
Find or create a branch

Branches Tags

car

☒ master

**git clone ...**



**git branch**

```
C:\Users\Ania\Desktop\project>git branch
* master
```

• **master ?!**

**git branch -r**  
*git branch --all*

```
C:\Users\Ania\Desktop\project>git branch -r
origin/HEAD -> origin/master
origin/car
origin/master
origin/user
```



# usuwanie lokalnych branchy

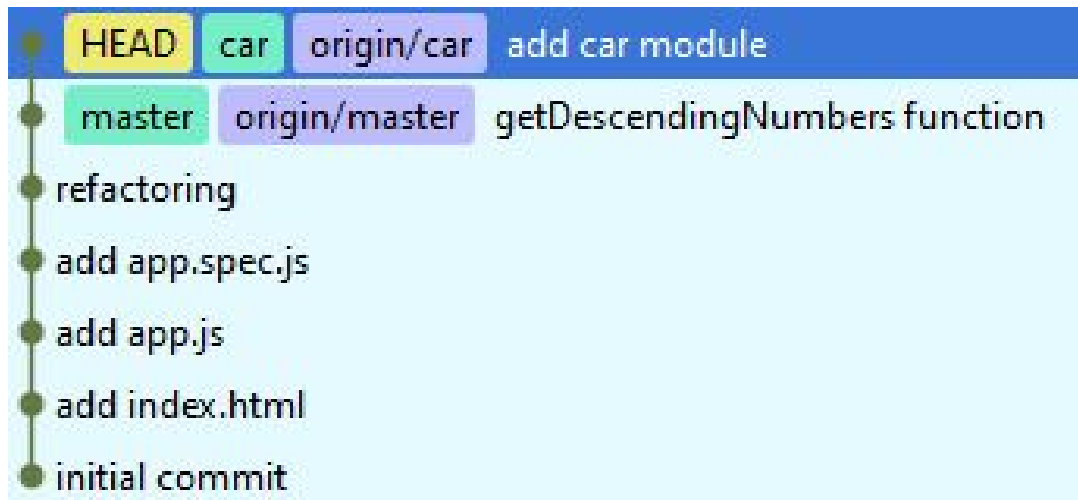
*git branch -D nazwa\_brancha*

```
* bc3e5a7 (user) add user module
| * 5652326 (origin/car, car) add car module
|/
* 831fc35 (HEAD -> master, origin/master, origin/HEAD) getDescendingNumbers function
* 33f1d23 refactoring
* 3e281f0 add app.spec.js
* 23c0508 add app.js
* 474e529 add index.html
* a09edcc initial commit
```



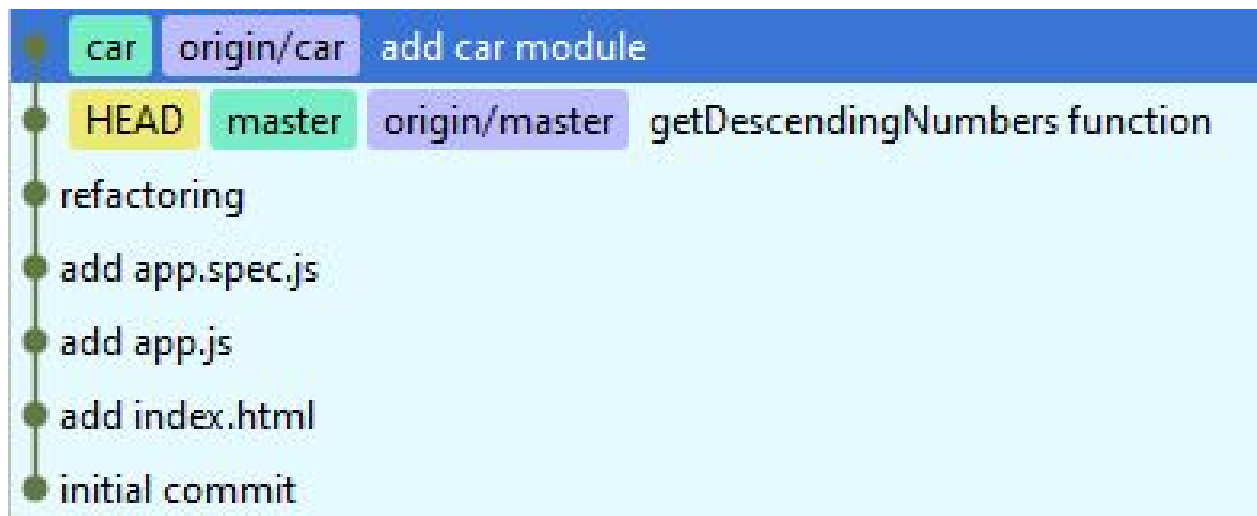
**git branch -D user**

```
C:\Users\Ania\Desktop\project>git log --oneline --graph --decorate --all
* 5652326 (origin/car, car) add car module
* 831fc35 (HEAD -> master, origin/master, origin/HEAD) getDescendingNumbers function
* 33f1d23 refactoring
* 3e281f0 add app.spec.js
* 23c0508 add app.js
* 474e529 add index.html
* a09edcc initial commit
```



**git branch -D car**

```
C:\Users\Ania\Desktop\project>git branch -D car
error: Cannot delete the branch 'car' which you are currently on.
```



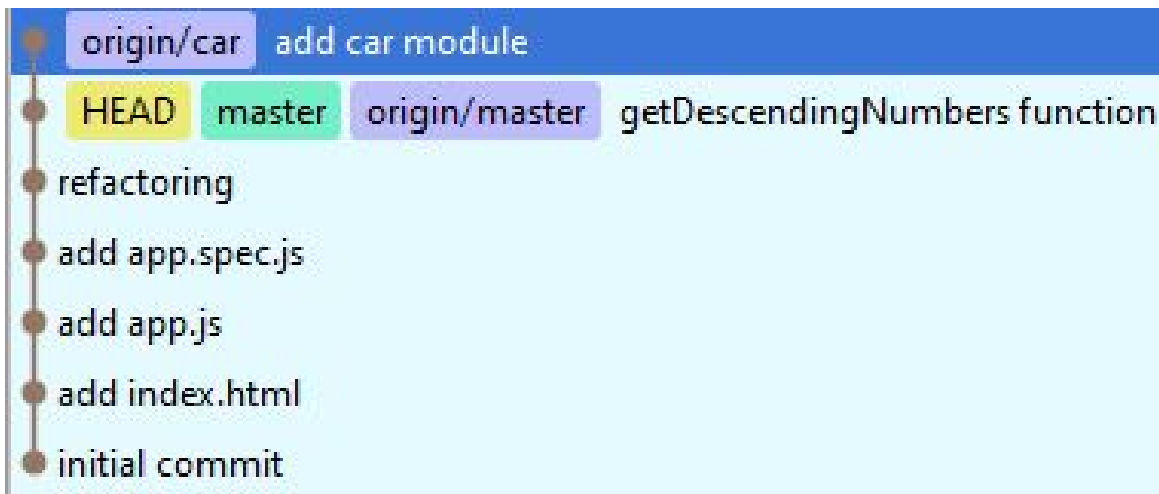
**git branch -D user**

```
C:\Users\Ania\Desktop\project>git branch -D car
Deleted branch car (was 5652326).
```



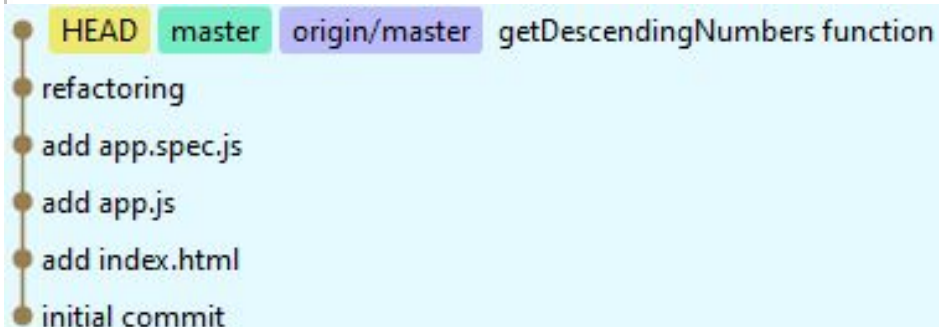
# usuwanie branchy zdalnych

*git push nazwa\_repo :nazwa\_brancha*



```
C:\Users\Ania\Desktop\project>git push origin :car
Username for 'https://github.com': aniaaw
Password for 'https://aniaaw@github.com':
To https://github.com/aniaaw/project.git
- [deleted]          car
```

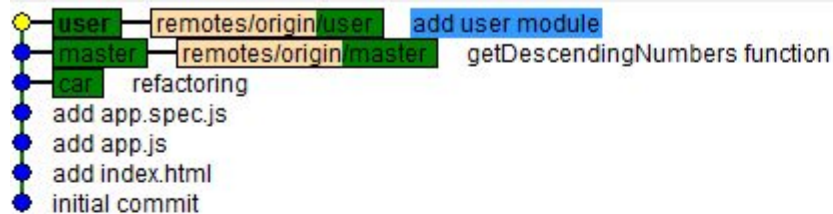
**git push origin :car**



# gitk

project: All files - gitk



File Edit View Help



aniaw <ania_w@outlook.com>	2016-02-28 11:44:34
aniaw <ania_w@outlook.com>	2016-02-27 16:00:48
aniaw <ania_w@outlook.com>	2016-02-27 15:15:01
aniaw <ania_w@outlook.com>	2016-02-27 14:18:05
aniaw <ania_w@outlook.com>	2016-02-27 13:48:43
aniaw <ania_w@outlook.com>	2016-02-27 12:18:27
aniaw <ania_w@outlook.com>	2016-02-27 12:17:46

SHA1 ID: 95a616cf1c7a67d37550c8db714667f2e3c82ad8

Row 1 / 7

Find   commit containing:

Search

☒ Patch ☐ Tree☒ Diff ☐ Old version ☐ New version Lines of context:  ☐ Ignore space changes

Comments

```
app/user/UserCtrl.js
app/user/user.html
```

```
author: ania_w <ania_w@outlook.com> 2016-02-28 11:44:34
committer: ania_w <ania_w@outlook.com> 2016-02-28 11:44:34
parent: 831fc35dfefd2a153ce9420a4d71c1f6abbe905b (getDescendingNumbers func
branches: remotes/origin/user, user
follows:
precedes:
```

```
add user module
```

```
----- app/user/UserCtrl.js
```

```
new file mode 100644
index 0000000..e69de29
```

```
----- app/user/user.html
```

```
new file mode 100644
index 0000000..ecd96b1
```

10 -0 0 +1 10 00