

## GitTaskPart1

1) Create a local repo and link it with remote repo (on github or bitbucket platforme)

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework
$ git init
Initialized empty Git repository in C:/Users/abelii/OneDrive - ENDAVA/Desktop/Git Homework/.git/
t Homework/.git/

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git add .

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git remote add origin https://github.com/alexandrabelii/Git-Homework.git

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git remote -v
origin https://github.com/alexandrabelii/Git-Homework.git (fetch)
origin https://github.com/alexandrabelii/Git-Homework.git (push)
```

Annotations in the image:  
- "Initialized the local repo" points to the output of `git init`.  
- "Linked the local repo with the remote repo" points to the output of `git remote add origin`.  
- "Verified the link with the remote repo" points to the output of `git remote -v`.

2) Create a new txt file (with name file1.txt) on the main branch and then add something changes (do 2 commits)

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git log
commit 400a7e7d1e9bda4153f1d3e0aee0799f9dd08982 (HEAD -> master)
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:27:47 2025 +0300

    second comit

commit f75700af17e5c729c6930b5bb8ac3a0e34661cd8
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:21:34 2025 +0300

    first commit
```

3) Create a new branch from main with name develop:

- create a new txt file (file2.txt)
- change the name of the file1.txt and then modify the content of the file1.txt
- add all these changes to index area, then add a new content to file2.txt, do commit, run git log
- run command `ls -l`, check files content

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git checkout -b develop
Switched to a new branch 'develop'

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ touch file2.txt

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ ls -l
total 1
-rw-r--r-- 1 abelii 1049089 13 Sep 18 20:27 file1.txt
-rw-r--r-- 1 abelii 1049089  0 Sep 18 20:32 file2.txt

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git mv file1.txt newfile1.txt
```

Annotations in the image:  
- "Created and moved on branch develop" points to the output of `git checkout -b develop`.  
- "Created a new file" points to the output of `touch file2.txt`.  
- "Verified what files I have in the repo" points to the output of `ls -l`.  
- "Modified the name of the file1.txt" points to the output of `git mv file1.txt newfile1.txt`.

[illegible]

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git commit -m "added new content to file2.txt"
[develop edbb97b] added new content to file2.txt
Committer: Alexandra Belii <Alexandra.Belii@endava.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

Committed without adding the  
changes to index area

```
git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
3 files changed, 1 insertion(+), 1 deletion(-)
delete mode 100644 file1.txt
create mode 100644 file2.txt
create mode 100644 newfile1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git log
commit edbb97bc1d4c646606c8a276047e6467d5643311 (HEAD -> develop)
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:39:52 2025 +0300
```

```
added new content to file2.txt
```

The commit happened

```
commit 400a7e7d1e9bda4153f1d3e0aee0799f9dd08982 (master)
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:27:47 2025 +0300
```

```
second comit
```

```
commit f75700af17e5c729c6930b5bb8ac3a0e34661cd8
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:21:34 2025 +0300
```

```
first commit
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ ls -l
total 2
-rw-r--r-- 1 abelii 1049089 12 Sep 18 20:39 file2.txt
-rw-r--r-- 1 abelii 1049089 17 Sep 18 20:36 newfile1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ cat file2.txt
new content
```

The content has changed

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git status
On branch develop
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file2.txt

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

The change was not tracked by git because of the skipped step o

#### 4) Move to main branch:

- What happen? Why? How to solve this? (you must to have an issue)

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git checkout master
error: Your local changes to the following files would be overwritten by checkout:
    file2.txt
Please commit your changes or stash them before you switch branches.
Aborting
```

Issue

- solve the issue and move to main branch,

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git add .
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time Git touches it

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git status
On branch develop
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   file2.txt

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git commit -m "not added to index area issue solved"
[develop c7d107b] not added to index area issue solved
Committer: Alexandra Belii <Alexandra.Belii@endava.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git status
On branch develop
nothing to commit, working tree clean

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git checkout master
Switched to branch 'master'
```

Issue solved

- run git log, what do you see?

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git log
commit 400a7e7d1e9bda4153f1d3e0aee0799f9dd08982 (HEAD -> master)
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:27:47 2025 +0300

    second comit

commit f75700af17e5c729c6930b5bb8ac3a0e34661cd8
Author: Alexandra Belii <Alexandra.Belii@endava.com>
Date: Thu Sep 18 20:21:34 2025 +0300

    first commit
```

Only the commits from the master branch


- run command ls -l, check files content, what difference you see?

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ ls -l
total 1
-rw-r--r-- 1 abelii 1049089 13 Sep 18 21:05 file1.txt
```

file1.txt is the old version  
and file2.txt is absent or better said on the develop branch

5) Create a new file (.gitignore). Add to it the extension of the files what you want to ignore, then commit.

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ touch .gitignore
```

	.gitignore		9/18/2025 9:35 PM	txtfile	0 KB
	file1		9/18/2025 9:05 PM	Text Document	1 KB

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ touch .gitignore

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ dir
file1.txt

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ echo "*.log" >> .gitignore

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ echo "*.tmp" >> .gitignore

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git commit -m "added types of file to ignore"
[master 90206de] added types of file to ignore
Committer: Alexandra Belii <Alexandra.Belii@endava.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
1 file changed, 2 insertions(+)
create mode 100644 .gitignore
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git status
On branch master
nothing to commit, working tree clean
```

- move to develop
- Create a new file that you want to ignore, commit.
- What happen? why?

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git checkout develop
Switched to branch 'develop'

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ touch file.log

abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ dir
file.log file2.txt newfile1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git status
On branch master
nothing to commit, working tree clean
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git ls -l
git: 'ls' is not a git command. See 'git --help'.
```

There is .gitignore on master branch

The most similar command is `ls` All files with the mentioned extensions are untracked

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ ls -l
total 1
-rw-r--r-- 1 abelii 1049089 0 Sep 18 21:57 file.log
-rw-r--r-- 1 abelii 1049089 13 Sep 18 21:56 file1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git ls-files
.gitignore
file1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (master)
$ git checkout develop
Switched to branch 'develop'
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ dir
file.log file2.txt newfile1.txt
```

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git ls-files
file2.txt
newfile1.txt
```

On the develop branch there is no .gitignore

```
abelii@ENDAUTO397FMf3d MINGW64 ~/OneDrive - ENDAVA/Desktop/Git Homework (develop)
$ git status
On branch develop
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file.log
```

So the files with extensions mentioned in the .gitignore from another branch are not ignored by git on this branch

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