

```
PS C:\Users\Doaa Gamal\Desktop\sc> git init
```

```
Initialized empty Git repository in C:/Users/Doaa Gamal/Desktop/sc/.git/
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git status
```

```
On branch master
```

```
No commits yet
```

```
Untracked files:
```

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

```
test.txt
```

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

```
PS C:\Users\Doaa Gamal\Desktop\sc> git commit -m "initlize"
```

```
On branch master
```

```
Initial commit
```

```
Untracked files:
```

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

```
test.txt
```

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

```
PS C:\Users\Doaa Gamal\Desktop\sc> git add test
```

```
fatal: pathspec 'test' did not match any files
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git add test.txt
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git status
```

```
On branch master
```

```
No commits yet
```

```
Changes to be committed:
```

```
(use "git rm --cached <file>..." to unstage)
```

```
new file: test.txt
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git commit -m "initlize"
```

```
[master (root-commit) 295f7d6] initlize
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 test.txt
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git commit -am "add line 1"
```

```
[master 8332653] add line 1
```

```
1 file changed, 1 insertion(+)
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git log --oneline
```

```
8332653 (HEAD -> master) add line 1
```

```
295f7d6 initlize
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git status
```

```
On branch master
```

```
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: test.txt
```

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

```
PS C:\Users\Doaa Gamal\Desktop\sc> git diff
```

```
diff --git a/test.txt b/test.txt
```

```
index 16d97b5..72eeaf7 100644
```

```
--- a/test.txt
```

```
+++ b/test.txt
```

```
@@ -1,2 @@
```

```
-hiii
```

```
\ No newline at end of file
```

```
+hiii
```

```
+22222222
```

```
\ No newline at end of file
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git commit -am "add line 2"
```

```
[master 084a630] add line 2
```

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

```
PS C:\Users\Doaa Gamal\Desktop\sc> git diff
```

```
PS C:\Users\Doaa Gamal\Desktop\sc>
```

```
\ No newline at end of file
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git commit -am "add line 2"
```

```
[master 084a630] add line 2
```

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

```
PS C:\Users\Doaa Gamal\Desktop\sc> git diff
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git remote add origin https://github.com/Dooooaa/sc_lab1.git
```

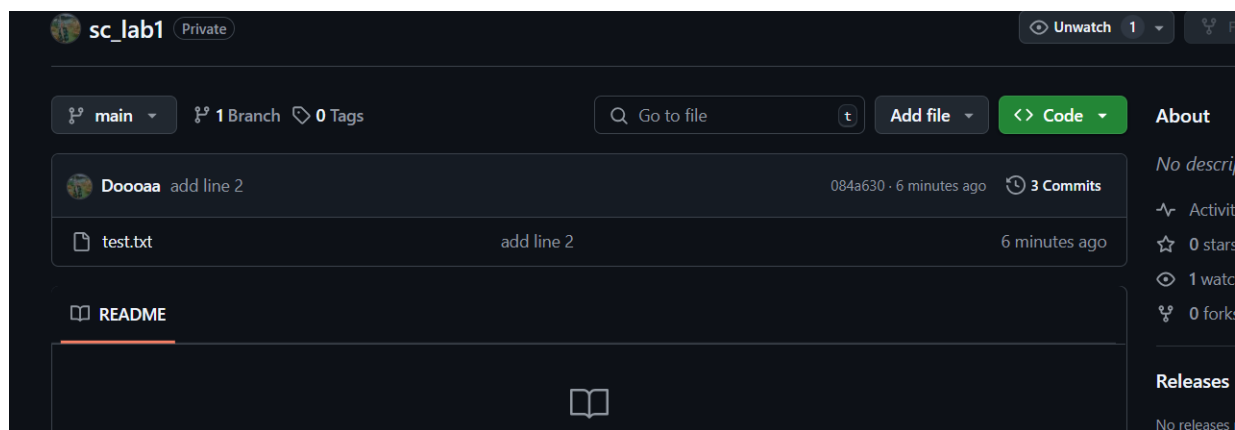
```

PS C:\Users\Doaa Gamal\Desktop\sc> git branch -M main

PS C:\Users\Doaa Gamal\Desktop\sc> git push -u origin main

Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (9/9), 623 bytes | 311.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Dooooaa/sc_lab1.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\Doaa Gamal\Desktop\sc>

```



----- remote to local -----

<https://github.com/leachim6/hello-world>

```
C:\Users\Doaa Gamal\Desktop\hello world>git clone git@github.com:leachim6/hello-world.git
```

Cloning into 'hello-world'...

git@github.com: Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

```
C:\Users\Doaa Gamal\Desktop\hello world>git clone https://github.com/leachim6/hello-world.git
```

Cloning into 'hello-world'...

remote: Enumerating objects: 7802, done.

remote: Counting objects: 100% (109/109), done.

```
remote: Compressing objects: 100% (68/68), done.  
remote: Total 7802 (delta 74), reused 41 (delta 41), pack-reused 7693 (from 4)  
Receiving objects: 100% (7802/7802), 5.17 MiB | 2.02 MiB/s, done.
```

```
Resolving deltas: 100% (4037/4037), done.
```

```
PS C:\Users\Doaa Gamal\Desktop\sc> git pull
```

```
remote: Enumerating objects: 4, done.
```

```
remote: Counting objects: 100% (4/4), done.
```

```
remote: Compressing objects: 100% (2/2), done.
```

```
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
```

```
Unpacking objects: 100% (3/3), 950 bytes | 118.00 KiB/s, done.
```

```
From https://github.com/Dooooaa/sc_lab1
```

```
084a630..ad9ae64  main    -> origin/main
```

```
Updating 084a630..ad9ae64
```

```
Fast-forward
```

```
file-2 | 1 +
```

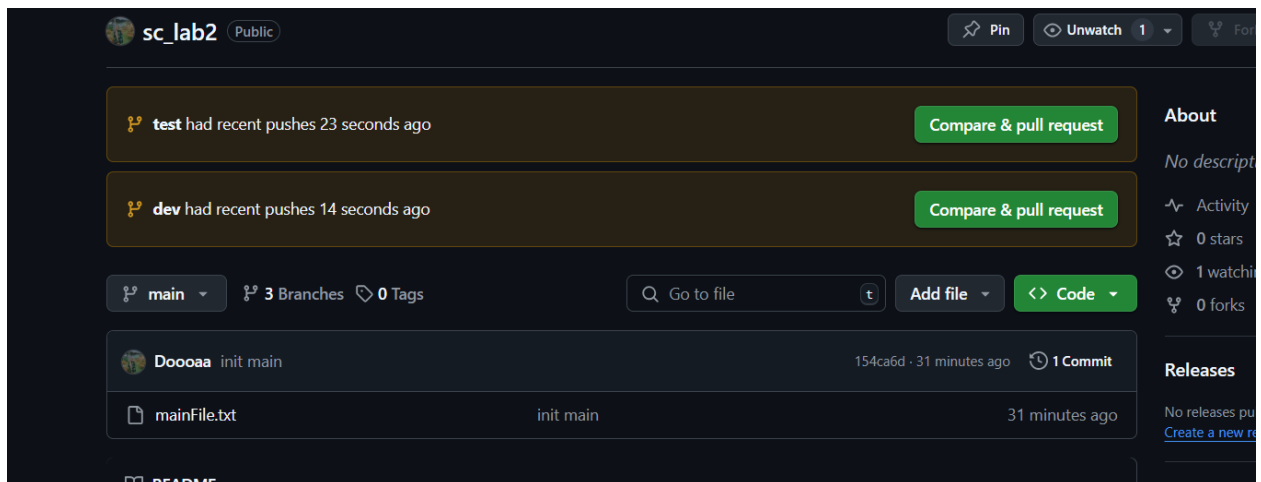
```
1 file changed, 1 insertion(+)
```

```
create mode 100644 file-2
```

```
PS C:\Users\Doaa Gamal\Desktop\sc>
```

-----lab 2-----

```
git push origin branch_name
```



```
PS C:\Users\Doaa Gamal\Desktop\lab2> git add .
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git commit -m "init main"
```

```
[master (root-commit) 154ca6d] init main
```

1 file changed, 1 insertion(+)

create mode 100644 mainFile.txt

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git branch dev
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git branch
```

dev

* master

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git branch test
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git branch
```

dev

* master

Test

----- push local repo to remote repo

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git remote add origin https://github.com/Dooooaa/sc_lab2.git
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git branch -M main
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push -u origin
```

fatal: The current branch main has no upstream branch.

To push the current branch and set the remote as upstream, use

```
git push --set-upstream origin main
```

To have this happen automatically for branches without a tracking

upstream, see 'push.autoSetupRemote' in 'git help config'.

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push
```

fatal: The current branch main has no upstream branch.

To push the current branch and set the remote as upstream, use

```
git push --set-upstream origin main
```

To have this happen automatically for branches without a tracking

upstream, see 'push.autoSetupRemote' in 'git help config'.

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push -u origin main
```

Enumerating objects: 3, done.

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

Writing objects: 100% (3/3), 213 bytes | 71.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Dooooaa/sc_lab2.git

```
* [new branch]      main -> main
```

branch 'main' set up to track 'origin/main'.

add file for each branch

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git switch dev
```

Switched to branch 'dev'

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git commit -am "add dev-file to dev branch"
```

On branch dev

Untracked files:

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

devFile.text

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

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git add .
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git commit -m "add dev-file to dev branch"
```

[dev 98ebe9f] add dev-file to dev branch

1 file changed, 1 insertion(+)

create mode 100644 devFile.text

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git switch test
```

Switched to branch 'test'

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git add .
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git commit -am "add test-file to test branch"
```

[test bf9c44a] add test-file to test branch

1 file changed, 1 insertion(+)

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git log --oneline
```

bf9c44a (HEAD -> test) add test-file to test branch

154ca6d (origin/main, main) init main

push branch dev /test to remote repo

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push origin test
```

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 12 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 286 bytes | 286.00 KiB/s, done.

```
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'test' on GitHub by visiting:
remote:      https://github.com/Dooooaa/sc_lab2/pull/new/test
remote:
To https://github.com/Dooooaa/sc_lab2.git
* [new branch]      test -> test
PS C:\Users\Doaa Gamal\Desktop\lab2> git push origin dev
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 284 bytes | 142.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:      https://github.com/Dooooaa/sc_lab2/pull/new/dev
remote:
To https://github.com/Dooooaa/sc_lab2.git
* [new branch]      dev -> dev
# merge two pranch locally on main
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\Doaa Gamal\Desktop\lab2> git merge test
Updating 154ca6d..bf9c44a
Fast-forward
 fileTest.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 fileTest.txt
PS C:\Users\Doaa Gamal\Desktop\lab2> git merge dev
Merge made by the 'ort' strategy.
 devFile.text | 1 +
1 file changed, 1 insertion(+)
create mode 100644 devFile.text
# after merge two pranch locally on main push it to remote repo
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git add .
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git commit -m "merge two branches locally then push remote repo"
```

On branch main

Your branch is ahead of 'origin/main' by 3 commits.

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

nothing to commit, working tree clean

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push
```

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 12 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (2/2), 333 bytes | 333.00 KiB/s, done.

Total 2 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Dooooaa/sc_lab2.git

154ca6d..3709ca3 main -> main

add version - vs annotated version & push

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git tag v1
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git tag -a v2 -m "add version 2"
```

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push v1
```

fatal: 'v1' does not appear to be a git repository

fatal: Could not read from remote repository.

Please make sure you have the correct access rights

and the repository exists.

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push origin v1
```

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Dooooaa/sc_lab2.git

* [new tag] v1 -> v1

```
PS C:\Users\Doaa Gamal\Desktop\lab2> git push origin v2
```

Enumerating objects: 1, done.

Counting objects: 100% (1/1), done.

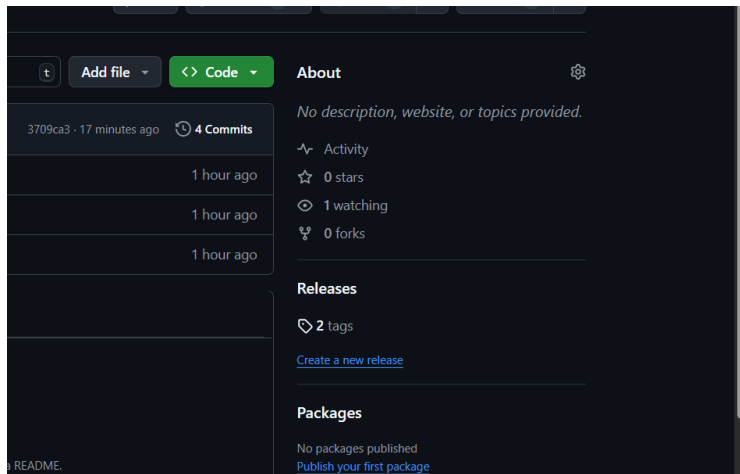
Writing objects: 100% (1/1), 159 bytes | 159.00 KiB/s, done.

Total 1 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Dooooaa/sc_lab2.git

* [new tag] v2 -> v2

PS C:\Users\Doaa Gamal\Desktop\lab2>



Add collaborators:

