

Module 2: Version Control with Git

Demo Document - 2

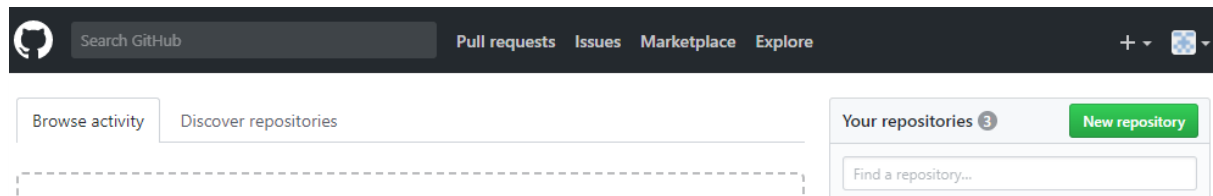
edureka!

edureka!

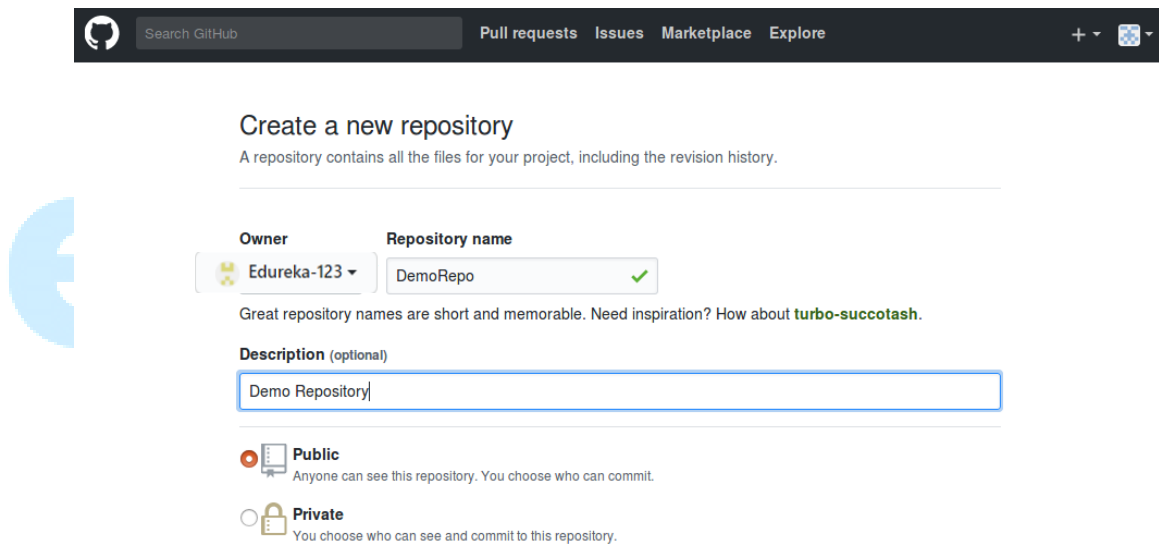
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Demo – 2: Remote Repositories

- Sign-up at **github.com**
- Click on New repository to create a new repository



- Under **Repository name**, give a name to your repository
- Give some Description about your repository under the **Description** section.



- For a free repository, choose public
- For a private repository, a monthly premium needs to be paid
- Finally, click on Create Repository

Description (optional)

Demo Repository



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None**

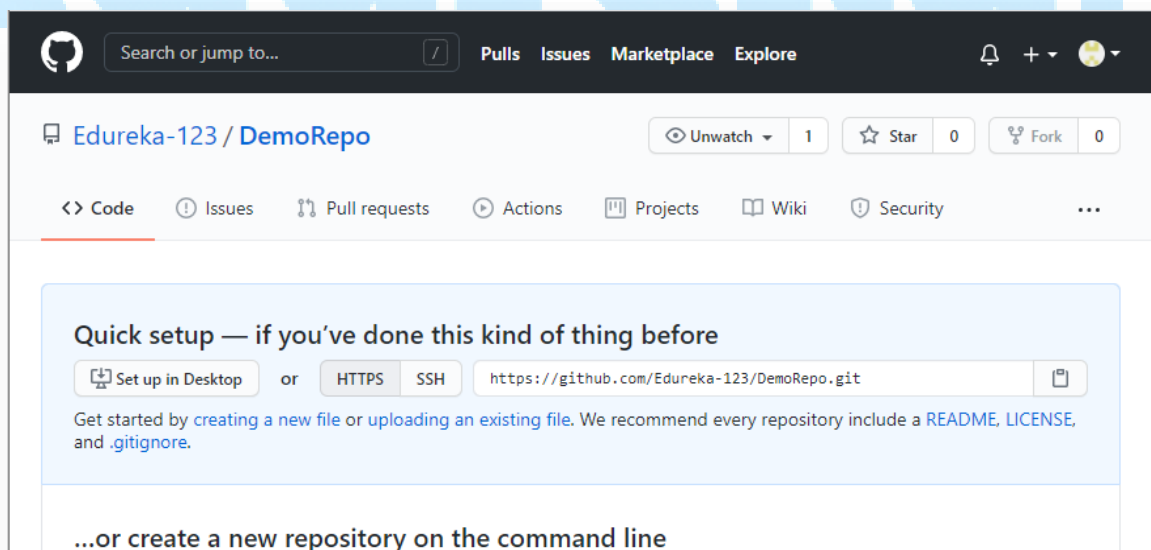
Add a license: **None**



Create repository

- To add Remote repository to local use **git add remote** followed by remote link
Syntax: `git add remote origin <remote link>`

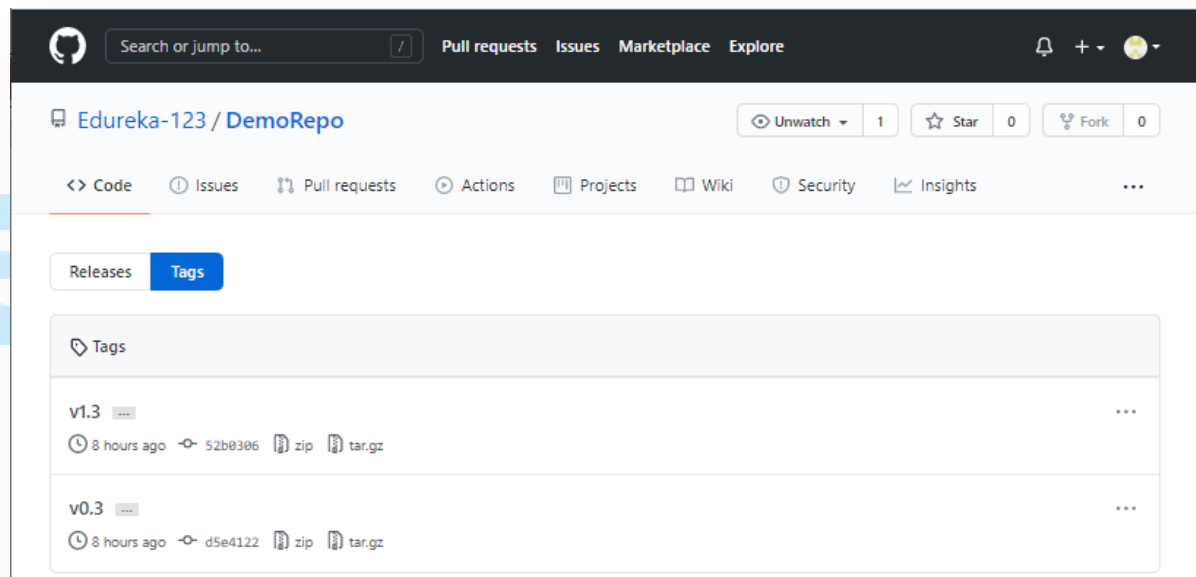
```
edureka@kmaster:~/demo$ git remote add origin https://github.com/Edureka-123/DemoRepo.git
edureka@kmaster:~/demo$
```



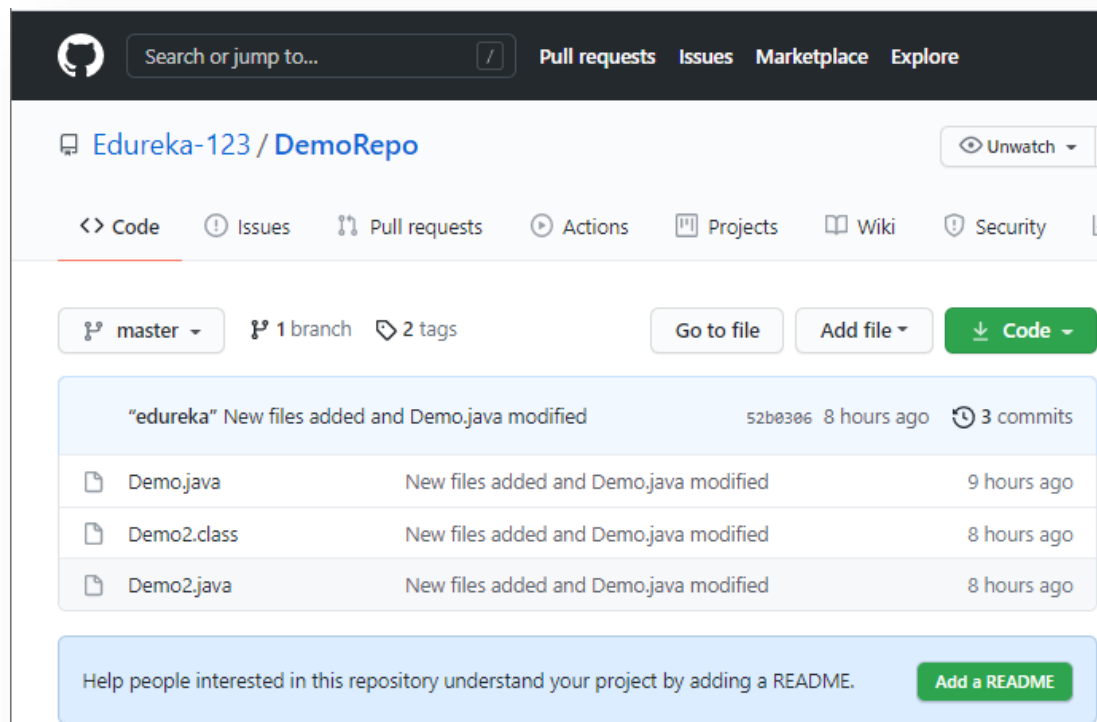
- To push **Local repository** to remote repository, use the **push** command
Syntax: `git push origin master`

```
edureka@kmaster:~/demo$ git push origin master
Username for 'https://github.com': Edureka-123
Password for 'https://Edureka-123@github.com':
Counting objects: 10, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (10/10), 1.23 KiB | 1.23 MiB/s, done.
Total 10 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Edureka-123/DemoRepo.git
 * [new branch]      master -> master
edureka@kmaster:~/demo$
```

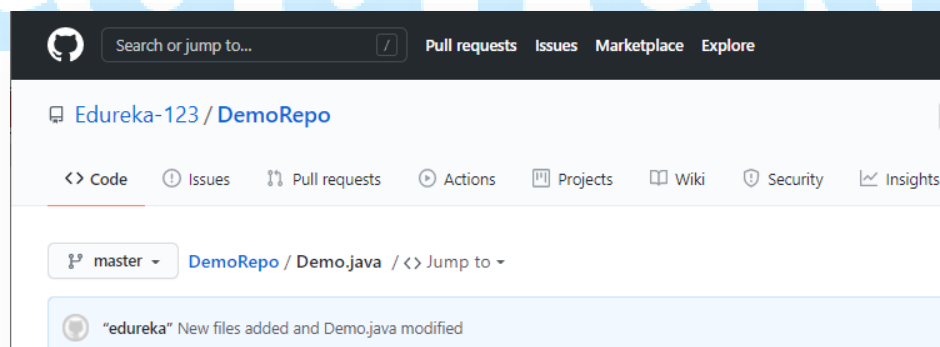
- Tags can be pushed, viewed, and shared on Remote
Syntax: `git push origin --tags`

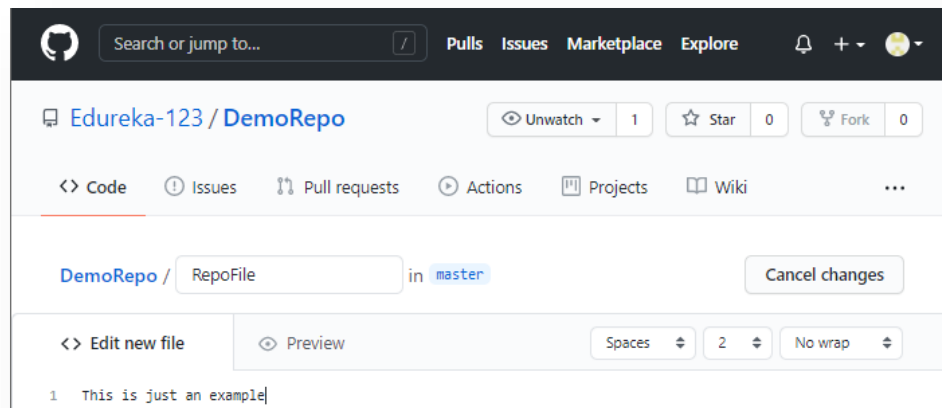


- The changes can be seen in the Remote repository

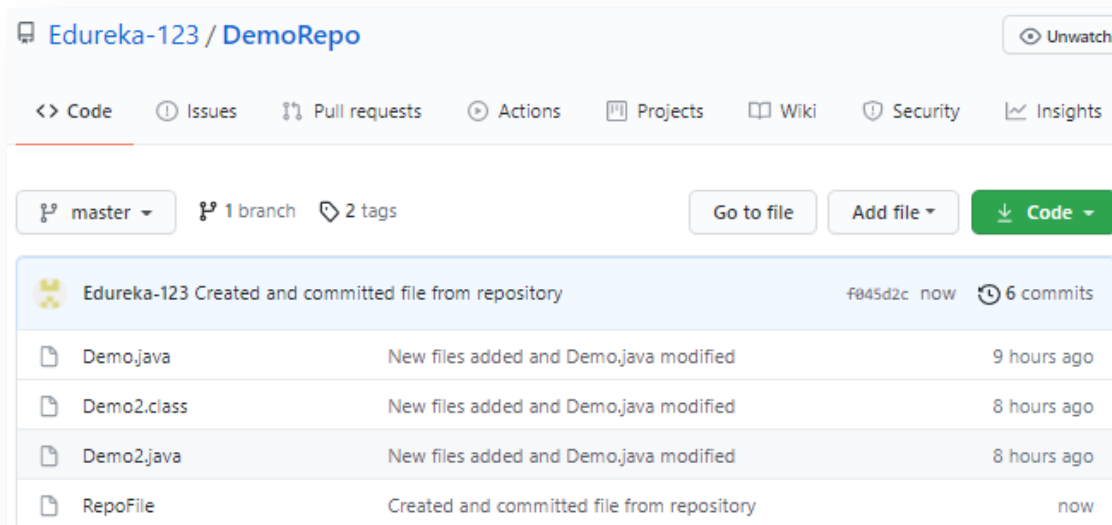
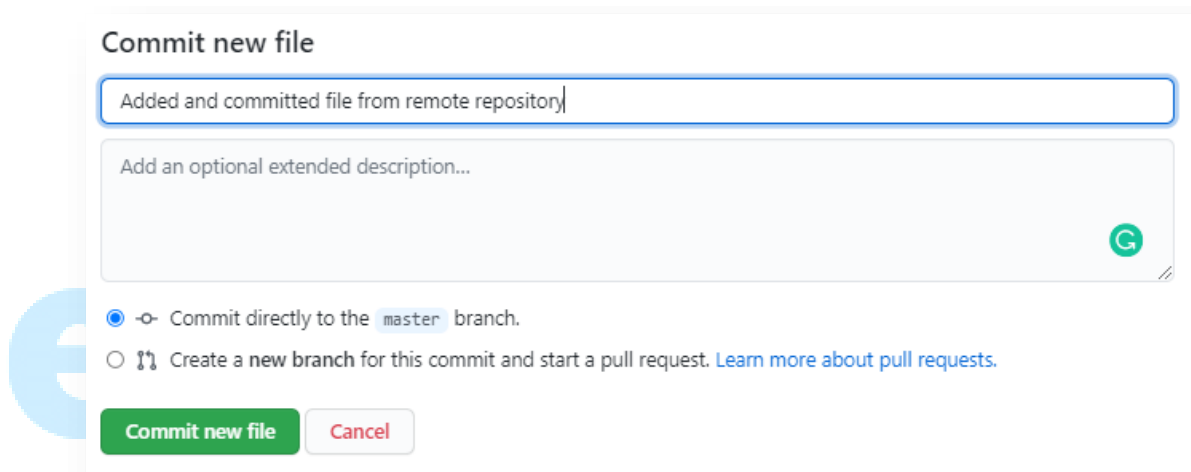


- Files can be created and edited on remote





- These files can then be committed on the remote



- To list all the remotes attached to your Local repository

Syntax: git remote -v

```
edureka@kmaster:~/demo$ git remote -v
origin https://github.com/Edureka-123/DemoRepo.git (fetch)
origin https://github.com/Edureka-123/DemoRepo.git (push)
edureka@kmaster:~/demo$
```

- **Fetch** command copies the changes from remote to the local repository
Syntax: git fetch origin
- Fetch **does not** affect the present working directory

```
edureka@kmaster:~/demo$ git fetch origin
edureka@kmaster:~/demo$ ls
Demo.class Demo.java Demo2.class Demo2.java
edureka@kmaster:~/demo$
```

- Pull copies all the changes from remote to the local repository
- It then merges the changes with the present working directory
Syntax: git pull origin

```
edureka@kmaster:~/demo$ git pull origin master
From https://github.com/Edureka-123/DemoRepo
* branch          master      -> FETCH_HEAD
Updating 52b0306..f045d2c
Fast-forward
 RepoFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 RepoFile
edureka@kmaster:~/demo$ ls
Demo.class Demo.java Demo2.class Demo2.java RepoFile
edureka@kmaster:~/demo$
```