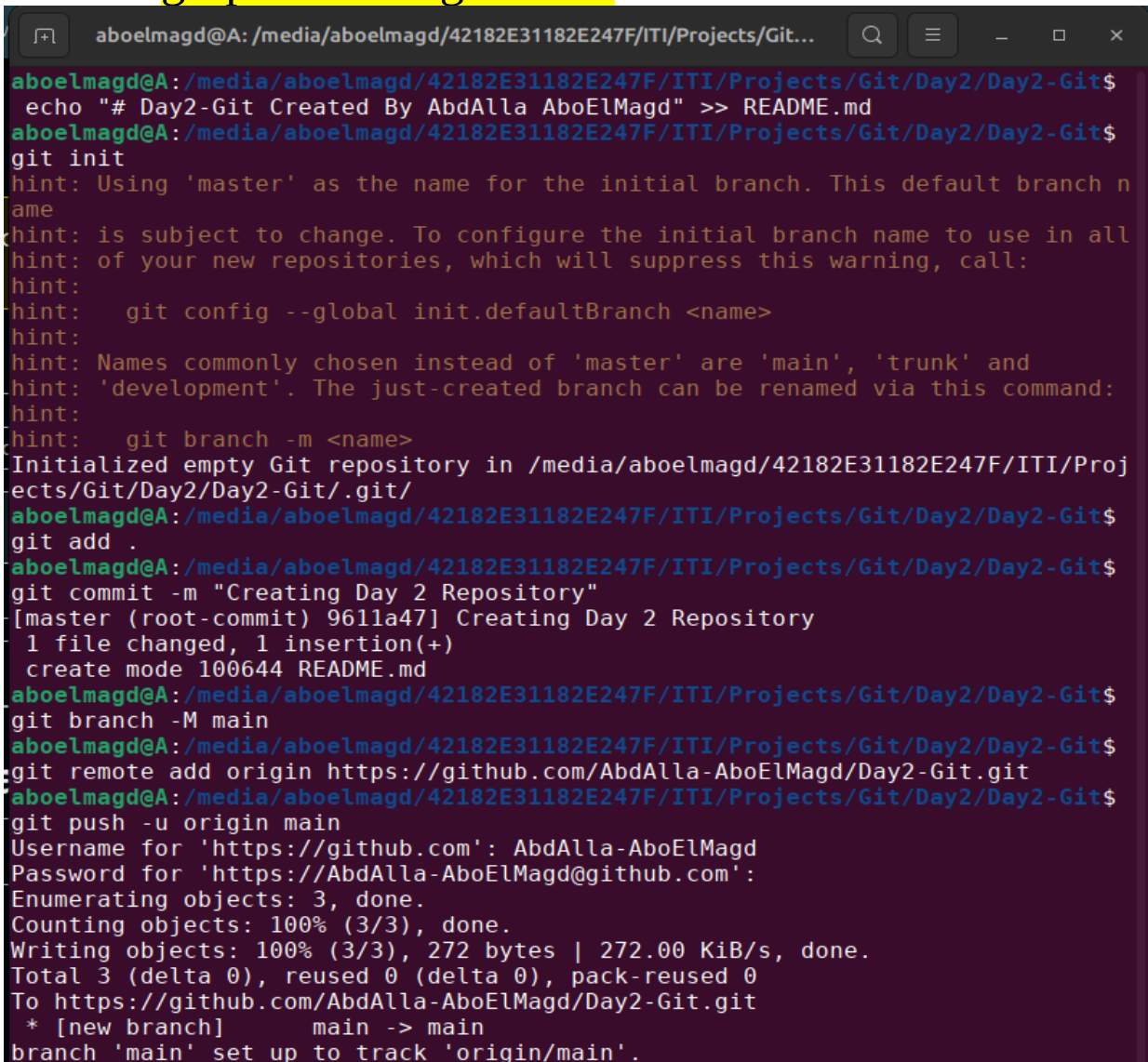


Lab 2

1. Create a new project on your local machine, then push it your remote repo.

Commands :

1. `git init`
2. `git add .`
3. `Git commit -m "Creating Day2 Repository"`
4. `git branch -M main`
5. `git remote add origin https://github.com/AbdAlla-AboElMagd/Day2-Git.git`
6. `git push -u origin main`

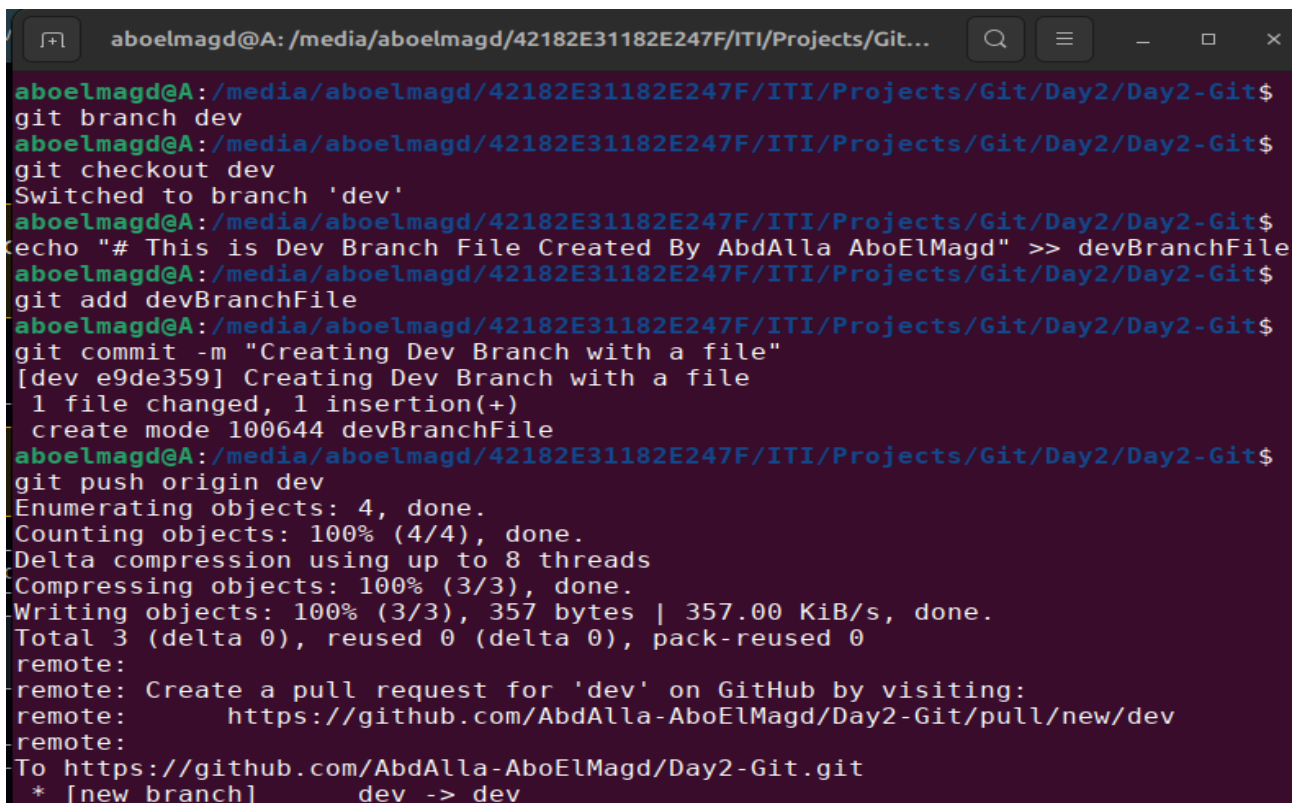


```
aboelmagd@A: /media/aboelmagd/42182E31182E247F/ITI/Projects/Git...
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
echo "# Day2-Git Created By AbdAlla AboElMagd" >> README.md
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /media/aboelmagd/42182E31182E247F/ITI/Proj
ects/Git/Day2/Day2-Git/.git/
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git add .
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git commit -m "Creating Day 2 Repository"
[master (root-commit) 9611a47] Creating Day 2 Repository
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch -M main
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git remote add origin https://github.com/AbdAlla-AboElMagd/Day2-Git.git
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push -u origin main
Username for 'https://github.com': AbdAlla-AboElMagd
Password for 'https://AbdAlla-AboElMagd@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

2. Create two branches (dev & test) then create one file on each branch, and push this changes to the remote repo.

1. `git branch dev test`
2. `git checkout dev`
3. `echo "# This is Dev Branch File Created By AbdAlla AboElMagd" >> devBranchFile`
4. `git commit -m "Creating Dev Branch with a file"`
5. `git push origin dev`

6. `git checkout -b test`
7. `echo "# This is test Branch File Created By AbdAlla AboElMagd" >> testBranchFile`
8. `git add testBranchFile`
9. `git commit -m "Creating test Branch with a file"`
10. `git push origin test`



```
aboelmagd@A: /media/aboelmagd/42182E31182E247F/ITI/Projects/Git...
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ git branch dev
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ git checkout dev
Switched to branch 'dev'
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ echo "# This is Dev Branch File Created By AbdAlla AboElMagd" >> devBranchFile
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ git add devBranchFile
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ git commit -m "Creating Dev Branch with a file"
[dev e9de359] Creating Dev Branch with a file
1 file changed, 1 insertion(+)
create mode 100644 devBranchFile
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$ git push origin dev
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 357 bytes | 357.00 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/AbdAlla-AboElMagd/Day2-Git/pull/new/dev
remote:
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
 * [new branch]      dev -> dev
```

```
aboelmagd@A: /media/aboelmagd/42182E31182E247F/ITI/Projects/Git...
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git checkout -b test
Switched to a new branch 'test'
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
echo "# This is test Branch File Created By AbdAlla AboElMagd" >> testBranchFile
```

```
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git add testBranchFile
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git commit -m "Creating test Branch with a file"
[test 92bdd31] Creating test Branch with a file
1 file changed, 1 insertion(+)
create mode 100644 testBranchFile
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin test
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 387 bytes | 387.00 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/AbdAlla-AboElMagd/Day2-Git/pull/new/test
remote:
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
* [new branch] test -> test
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch
dev
main
* test
```

3. Merge this changes on Master branch and then push it to your remote master branch.

1. Git checkout main
2. git merge dev
3. git merge test
4. git push origin main

```
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git...
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git merge dev
Updating 9611a47..e9de359
Fast-forward
 devBranchFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 devBranchFile
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git merge test
Updating e9de359..92bdd31
Fast-forward
 testBranchFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 testBranchFile
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
 9611a47..92bdd31  main -> main
```

4. Tell me how to remove them locally and remotely.

1. To Remove them locally

1. git branch -d dev
2. git branch -d test

2. To Remove them remotely

1. git push origin :dev
2. git push origin :test

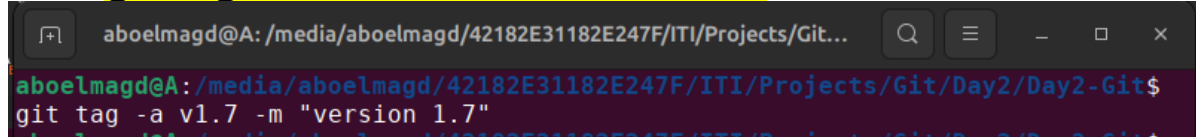
```
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git...
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch
 dev
* main
 test
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch -d dev
Deleted branch dev (was e9de359).
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch -d test
Deleted branch test (was 92bdd31).
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch
* main
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin :dev
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
- [deleted]      dev
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch -r
 origin/main
 origin/test
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin :test
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
- [deleted]      test
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git branch -r
 origin/main
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
```

5. Send an invitation to me.

1. Done

6. Create an annotated tag with tagname (v1.7) .

1. git tag -a v1.7 -m "version 1.7"

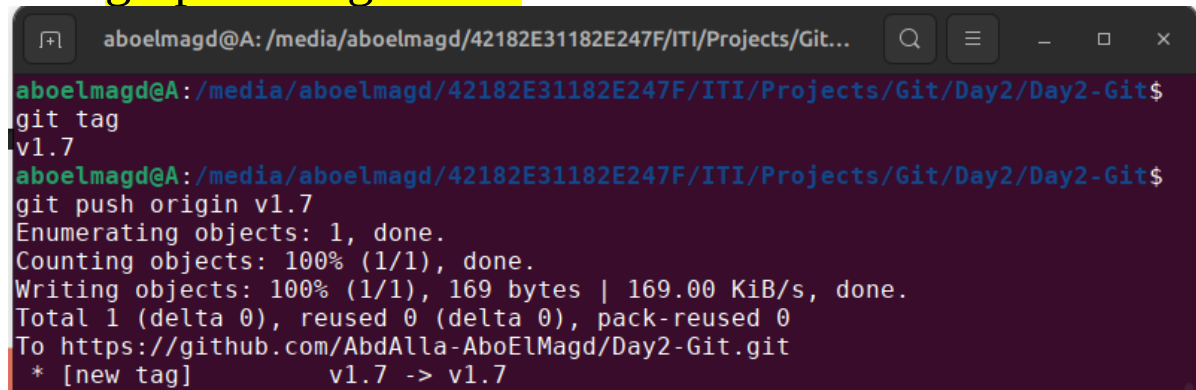


```
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git...
aboeImagd@A:/media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag -a v1.7 -m "version 1.7"
```

7. Push it to the remote repository.

1. git tag

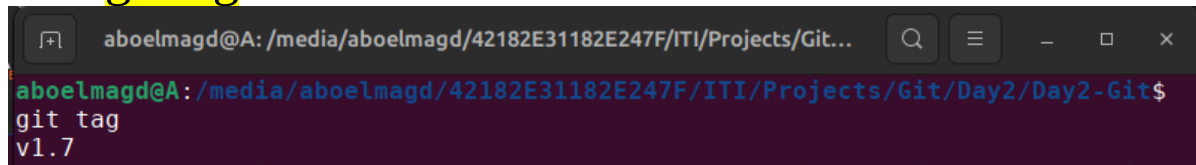
2. git push origin v1.7



```
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git...
aboeImagd@A:/media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag
v1.7
aboeImagd@A:/media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin v1.7
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 169 bytes | 169.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
* [new tag]          v1.7 -> v1.7
```

8. Tell me how to list tags.

1. git tag



```
aboeImagd@A: /media/aboeImagd/42182E31182E247F/ITI/Projects/Git...
aboeImagd@A:/media/aboeImagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag
v1.7
```

9. Tell me how to delete tag locally and remotely.

1. To Remove It locally

1. git tag -d v1.7

2. To Remove It remotely

1. git push origin --delete v1.7

```
aboelmagd@A: /media/aboelmagd/42182E31182E247F/ITI/Projects/Git...
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git ls-remote --tags
From https://github.com/AbdAlla-AboElMagd/Day2-Git.git
1c5719d42d06943fc314bf86cd5e160d91dc3bc1      refs/tags/v1.7
92bdd310af177b62cbb76501db51ea6604bc711e      refs/tags/v1.7^{}}
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git push origin --delete v1.7
To https://github.com/AbdAlla-AboElMagd/Day2-Git.git
- [deleted]          v1.7
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git ls-remote --tags
From https://github.com/AbdAlla-AboElMagd/Day2-Git.git
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag
v1.7
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag -d v1.7
Deleted tag 'v1.7' (was 1c5719d)
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
git tag
aboelmagd@A:/media/aboelmagd/42182E31182E247F/ITI/Projects/Git/Day2/Day2-Git$
```

10. Add an image in the README.md file.

1. ![Log Image](./images/log.png)