

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

```

PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git init
Initialized empty Git repository in D:/IOT-WORK/COURSES-IOT Technology/ITI/IOT_application_track/GIT_1/.git/
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git remote add origin https://github.com/shehabhassan/IOT_Lab1.git
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch -m master
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git add .
git: 'git' is not a git command. See 'git --help'.
The most similar command is
  init
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git commit -m "Hello everyone"
[master (root-commit) f52f803] Hello everyone
  Writing objects: 100% (3/3), 243 bytes | 243.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/shehabhassan/IOT_Lab1/pull/new/master
remote:
To https://github.com/shehabhassan/IOT_Lab1.git
 * [new branch] master -> master
branch 'master' set up to track 'origin/master'.
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch dev
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch test
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push -u origin master
Everything up-to-date

```

- Create two branches dev test then create one file on each branch, push changes to the remote repo.

```

PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch dev
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch test
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push -u origin master
Everything up-to-date
branch 'master' set up to track 'origin/master'.
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push
Everything up-to-date
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch
  dev
* master
  test
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git checkout test
Switched to branch 'test'
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch
  dev
  master
* test
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git add file-2.html
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git commit -m "file-2"
[test 2a0aa4c] file-2
  1 file changed, 12 insertions(+)
  create mode 100644 file-2.html
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> 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), 453 bytes | 453.00 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/shehabhassan/IOT_Lab1/pull/new/test
remote:
To https://github.com/shehabhassan/IOT_Lab1.git
 * [new branch] test -> test
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git checkout dev
Switched to branch 'dev'
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git add file-3.html

```

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

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git merge test
Already up to date.
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git merge dev
Already up to date.
```

- Tell me how to remove them locally and remotely.

Local :

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git branch -d test
Deleted branch test (was 2a0aa4c).
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> []
```

Remotely :

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push origin :dev
To https://github.com/shehabhassan/IOT_Lab1.git
  - [deleted]      dev
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> []
```

- Send an invitation to me (mahmoudhelmy31@gmail.com).

The screenshot shows the GitHub 'Collaborators' page for a repository. At the top, there is a checkbox labeled '1 member selected...' with a dropdown arrow. To the right, there is a 'Type' dropdown. Below this is a search bar with the placeholder 'Find a collaborator...'. A list of collaborators is shown, starting with 'Mahmoud ElMahmoudy' (represented by a green profile picture). Next to his name is the status 'Awaiting Ma7moudHelmi's response'. To the right of the status are two buttons: 'Pending Invite' with a clipboard icon and 'Remove'. There is also a small minus sign icon to the left of his name.

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

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git tag -a v2.0 -m "v.17"
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push origin v.17
```

- Push it to the remote repository.

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push origin v2.0
Everything up-to-date
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1>
```

- Tell me how to list tags.

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git tag
v2.0
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1>
```

- Tell me how to delete tag locally and remotely.

Local :

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git tag -d v2.0
Deleted tag 'v2.0' (was f647046)
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1>
```

Remotely :

```
PS D:\IOT-WORK\COURSES-IOT Technology\ITI\IOT_application_track\GIT_1> git push origin delete v2.0
```

- Add an image in the README.md file.

