# Module 2: Git Assignment - 3

1. Create a Git working directory, with the following branches:

- Develop
- F1
- f2

Solution:-

Note:- We can not create any branch before master branch so this step will be performed after creating master branch. And to create master branch firstly we must commit any file to local repo.

$ sudo su
# apt update

```
ubuntu@ip-172-31-85-241:~$ sudo su
root@ip-172-31-85-241:/home/ubuntu# apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [11
9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [
108 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
```

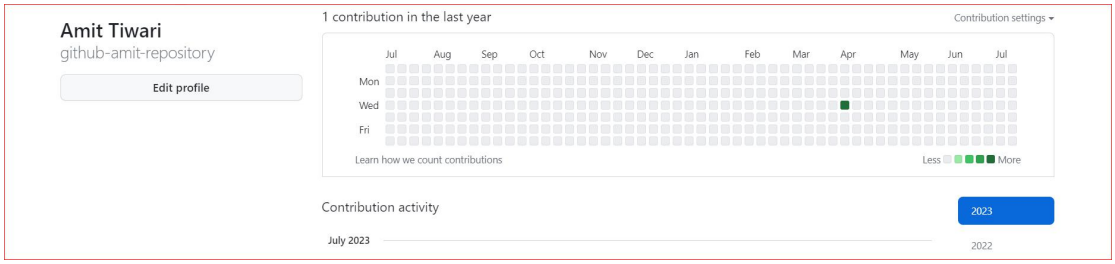
# apt upgrade
# apt install git
# which git
# git --version

```
root@ip-172-31-85-241:/home/ubuntu# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
#
# An OpenSSL vulnerability has recently been fixed with USN-6188-1 & 6119-1:
# CVE-2023-2650: possible DoS translating ASN.1 object identifiers.
# Ensure you have updated the package to its latest version.
#
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-85-241:/home/ubuntu# apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.9).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-85-241:/home/ubuntu# which git
/usr/bin/git
root@ip-172-31-85-241:/home/ubuntu# git --version
git version 2.34.1
```

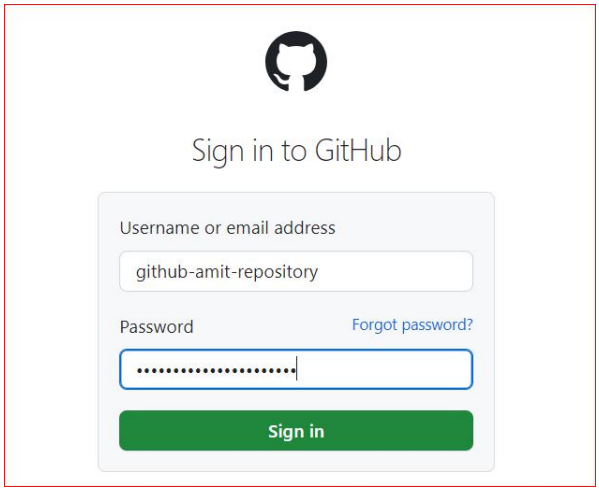
# git config --global user.name "Amit Tiwari"
# git config --global user.email "redhat.amitiwari@gmail.com"
# git config --list
# mkdir gitdir
# cd gitdir

```
root@ip-172-31-85-241:/home/ubuntu# git config --global user.name "Amit Tiwari"
root@ip-172-31-85-241:/home/ubuntu# git config --global user.email "redhat.amiti
wari@gmail.com"
root@ip-172-31-85-241:/home/ubuntu# git config --list
user.name=Amit Tiwari
user.email=redhat.amitiwari@gmail.com
root@ip-172-31-85-241:/home/ubuntu# mkdir gitdir
root@ip-172-31-85-241:/home/ubuntu# cd gitdir
root@ip-172-31-85-241:/home/ubuntu/gitdir#
```

* Create github account




* github account login



# git init
# git status

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git init
hint: Using 'master' as the name for the initial branch. This default branch nam
e
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 /home/ubuntu/gitdir/.git/
root@ip-172-31-85-241:/home/ubuntu/gitdir# git status
On branch master

No commits yet

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

2. In the master branch, commit main.txt file.

Solution:-

# touch main.txt
# git add main.txt && git commit -m “This is my first commit of file main.txt to master branch.” main.txt

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# touch main.txt
root@ip-172-31-85-241:/home/ubuntu/gitdir# git add main.txt && git commit -m "Th
is is my first commit of file main.txt to master branch." main.txt
[master (root-commit) a8d1938] This is my first commit of file main.txt to maste
r branch.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 main.txt
```

* Now perform task 1:-

# git branch
# git branch Develop && git branch F1 && git branch f2
# git branch

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch
* master
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch Develop && git branch F1 &
& git branch f2
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch
  Develop
  F1
  f2
* master
```

3. Put develop.txt in develop branch, F1.txt and f2.txt in F1 and f2 respectively.

Solution:-

# git checkout Develop
# touch develop.txt
# git add develop.txt && git commit -m “This is commit develop.txt into Develop branch.” develop.txt

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git checkout Develop
Switched to branch 'Develop'
root@ip-172-31-85-241:/home/ubuntu/gitdir# touch develop.txt
root@ip-172-31-85-241:/home/ubuntu/gitdir# git add develop.txt && git commit -m
"This is commit develop.txt into Develop branch." develop.txt
[Develop abc0c6c] This is commit develop.txt into Develop branch.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 develop.txt
```

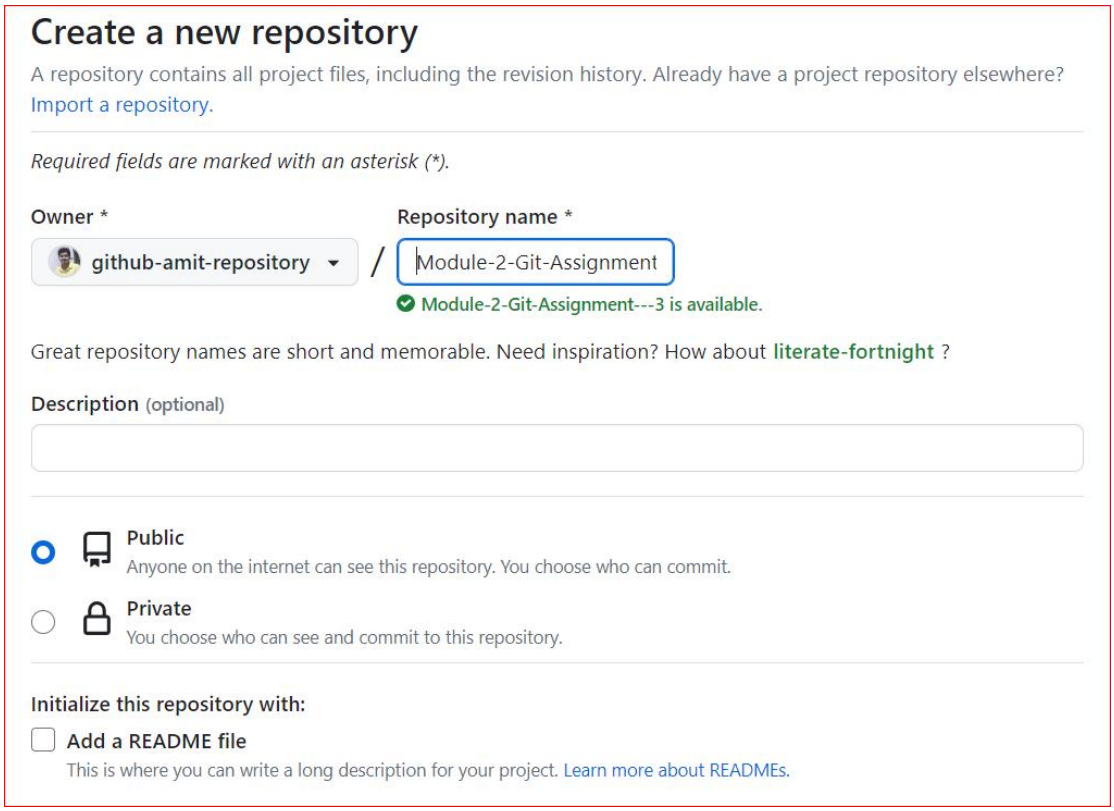
# git checkout F1
# touch F1.txt
# git add F1.txt && git commit -m “This is commit F1.txt into F1 branch.” F1.txt

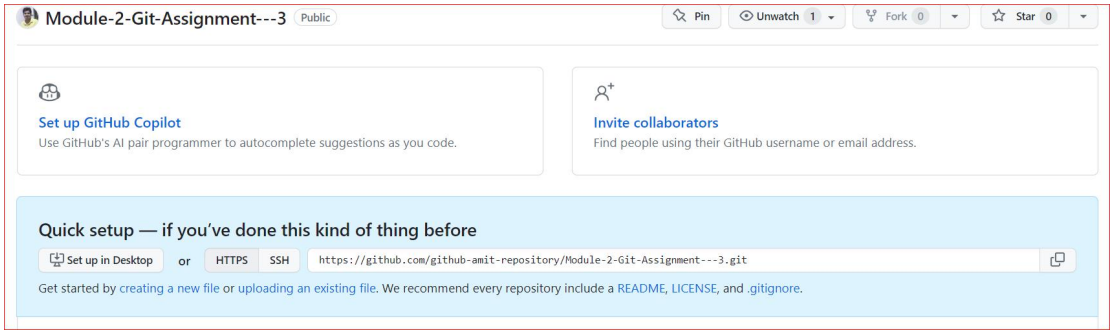
```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git checkout F1
Switched to branch 'F1'
root@ip-172-31-85-241:/home/ubuntu/gitdir# touch F1.txt
root@ip-172-31-85-241:/home/ubuntu/gitdir# git add F1.txt && git commit  -m "Thi
s is commit F1.txt into F1  branch."  F1.txt
[F1 f049eaf] This is commit F1.txt into F1  branch.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 F1.txt
```

# git checkout f2
# touch f2.txt
# git add f2.txt && git commit -m “This is commit f2.txt into f2 branch.” f2.txt

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git checkout f2
Switched to branch 'f2'
root@ip-172-31-85-241:/home/ubuntu/gitdir# touch f2.txt
root@ip-172-31-85-241:/home/ubuntu/gitdir# git add f2.txt && git commit  -m "Thi
s is commit f2.txt into f2 branch."  f2.txt
[f2 5db39ab] This is commit f2.txt into f2 branch.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f2.txt
```

* Now create new repository in remote repo:-



4. Push all these branches to GitHub.

Solution:-

# git remote add origin “https://github.com/github-amit-repository/Module-2-Git-Assignment---3.git”

# git push origin master

# git push origin Develop F1 f2

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git remote add origin "https://github
.com/github-amit-repository/Module-2-Git-Assignment---3.git"
root@ip-172-31-85-241:/home/ubuntu/gitdir# git push origin master
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 246 bytes | 246.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/github-amit-repository/Module-2-Git-Assignment---3.git
 * [new branch]      master -> master
root@ip-172-31-85-241:/home/ubuntu/gitdir# git push origin Develop F1 f2
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 615 bytes | 615.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/github-amit-repository/Module-2-Git-Assignment---3.git
 * [new branch]      Develop -> Develop
 * [new branch]      F1 -> F1
 * [new branch]      f2 -> f2
root@ip-172-31-85-241:/home/ubuntu/gitdir#
```

5. On local delete f2 branch.

Solution:-

# git branch

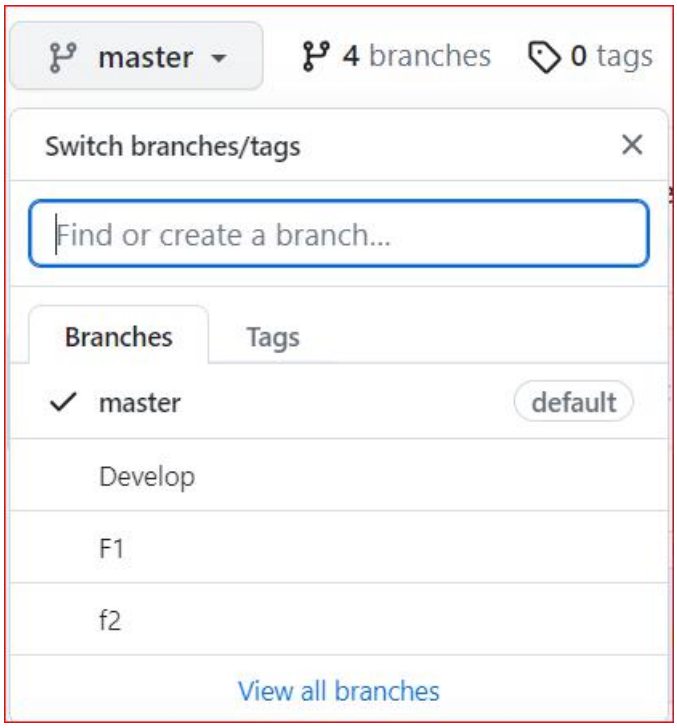
```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch
  Develop
  F1
* f2
  master
```

# git checkout master
# git branch -D f2
# git branch

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git checkout master
Already on 'master'
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch -D f2
Deleted branch f2 (was 5db39ab).
root@ip-172-31-85-241:/home/ubuntu/gitdir# git branch
  Develop
  F1
* master
```

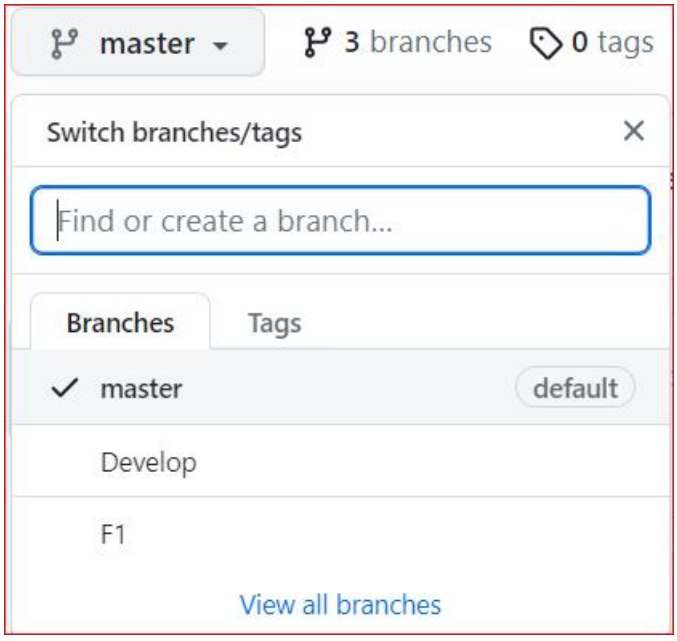
6. Delete the same branch on GitHub as well.

Solution:-




# git push origin --delete f2

```
root@ip-172-31-85-241:/home/ubuntu/gitdir# git push origin --delete f2
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
To https://github.com/github-amit-repository/Module-2-Git-Assignment---3.git
 - [deleted]         f2
```


master
3 branches
0 tags
Switch branches/tags
Find or create a branch...
Branches
Tags
master
default
Develop
F1
View all branches