

# Assignment No. 3

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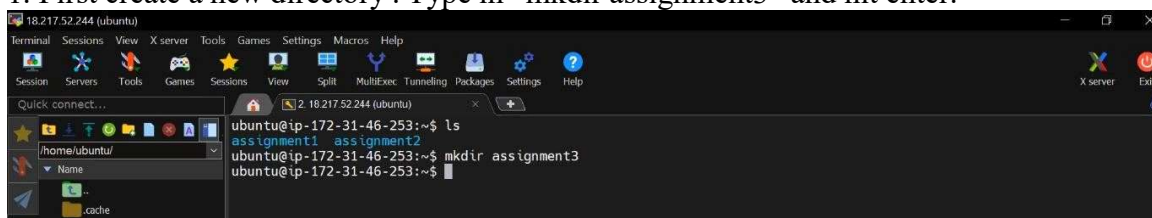
## Tasks:

1. Create a Git working directory, with the following branches:
  - a. Develop
  - b. F1
  - c. F2
2. In the master branch, commit main.txt file
3. Put develop.txt in develop branch, f1.txt and f2.txt in f1 and f2 respectively
4. Push all these branches to GitHub
5. On local delete f2 branch
6. Delete the same branch on GitHub as well

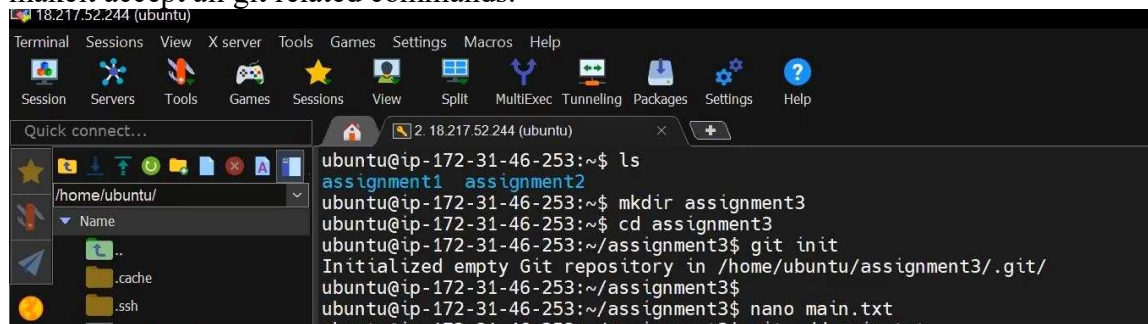
## Solution:

### Steps:

1. First create a new directory . Type in “mkdir assignment3” and hit enter.

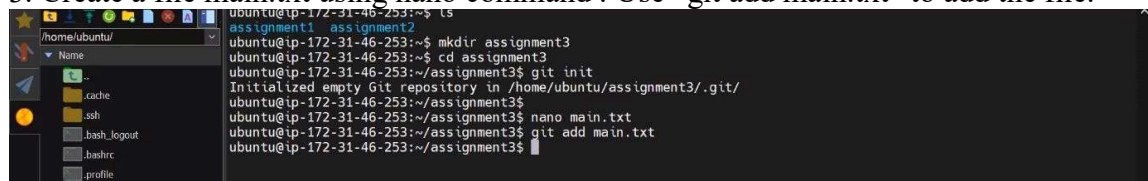


2. Then using `cd` command to go inside the directory . Type “`git init`” command to make it accept all git related commands.



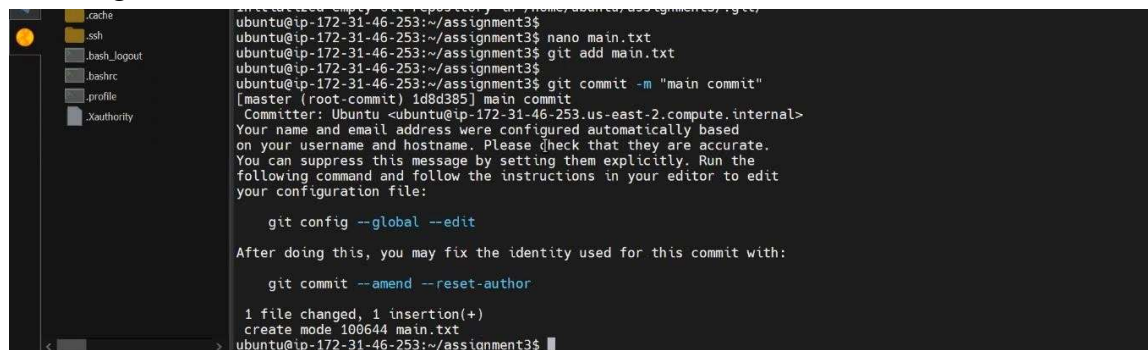
```
ubuntu@ip-172-31-46-253:~$ ls
assignment1 assignment2
ubuntu@ip-172-31-46-253:~$ mkdir assignment3
ubuntu@ip-172-31-46-253:~$ cd assignment3
ubuntu@ip-172-31-46-253:~/assignment3$ git init
Initialized empty Git repository in /home/ubuntu/assignment3/.git/
ubuntu@ip-172-31-46-253:~/assignment3$ nano main.txt
```

3. Create a file `main.txt` using `nano` command . Use “`git add main.txt`” to add the file.



```
ubuntu@ip-172-31-46-253:~/assignment3$ ls
assignment1 assignment2
ubuntu@ip-172-31-46-253:~/assignment3$ mkdir assignment3
ubuntu@ip-172-31-46-253:~/assignment3$ cd assignment3
ubuntu@ip-172-31-46-253:~/assignment3$ git init
Initialized empty Git repository in /home/ubuntu/assignment3/.git/
ubuntu@ip-172-31-46-253:~/assignment3$ nano main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git add main.txt
ubuntu@ip-172-31-46-253:~/assignment3$
```

4. Use “`git commit -m “main commit”`” to commit the file.



```
ubuntu@ip-172-31-46-253:~/assignment3$ git commit -m "main commit"
[master (root-commit) 1d8d385] main commit
Committer: Ubuntu <ubuntu@ip-172-31-46-253.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

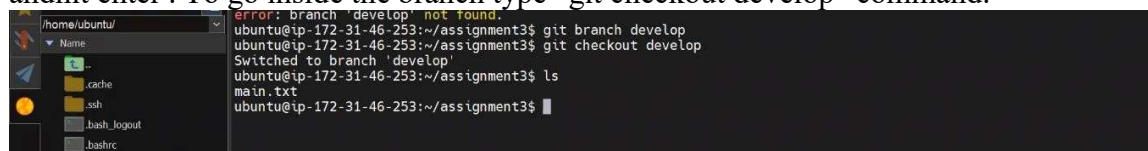
    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 main.txt
ubuntu@ip-172-31-46-253:~/assignment3$
```

5. Similarly create new branch named `develop` using “`git branch develop`” command and hit enter . To go inside the branch type “`git checkout develop`” command.



```
error: branch 'develop' not found.
ubuntu@ip-172-31-46-253:~/assignment3$ git branch develop
ubuntu@ip-172-31-46-253:~/assignment3$ git checkout develop
Switched to branch 'develop'
ubuntu@ip-172-31-46-253:~/assignment3$ ls
main.txt
ubuntu@ip-172-31-46-253:~/assignment3$
```

6. Use “`nano develop.txt`” to create a file inside `develop` branch . Hence you will see `main.txt` and `develop.txt` file now. Use “`git add develop.txt`” to add the file and “`git commit -m “develop commit”`” to commit it as well.

```
ubuntu@ip-172-31-46-253:~/assignment3$ ls
main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ nano develop.txt
ubuntu@ip-172-31-46-253:~/assignment3$ ls
develop.txt  main.txt
ubuntu@ip-172-31-46-253:~/assignment3$

ubuntu@ip-172-31-46-253:~/assignment3$ git commit -m "develop commit"
[develop 827a7b6] develop commit
Committer: Ubuntu <ubuntu@ip-172-31-46-253.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

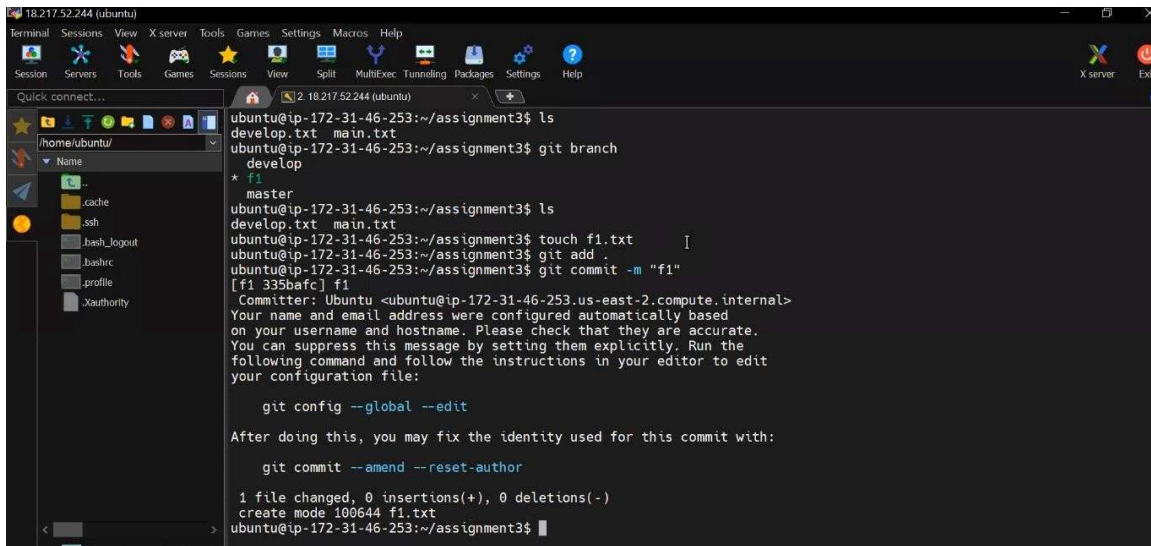
    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 develop.txt
ubuntu@ip-172-31-46-253:~/assignment3$
```

7. Now use “git checkout -b f1” to create a new branch and to go inside it at the sametime.

```
ubuntu@ip-172-31-46-253:~/assignment3$ ls
develop.txt  main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git branch
* develop
master
ubuntu@ip-172-31-46-253:~/assignment3$ git checkout -b f1
Switched to a new branch 'f1'
ubuntu@ip-172-31-46-253:~/assignment3$
```

8. Here create file f1 suing “touch f1.txt” command . Then add the file and commit it aswell.

A terminal window titled '18.217.52.244 (ubuntu)' with a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. The left sidebar shows a file explorer for '/home/ubuntu/' with folders like .cache, .ssh, .bash\_logout, .bashrc, .profile, and .xauthority. The terminal output shows the user in the directory ~/assignment3. They run 'ls' showing 'develop.txt' and 'main.txt'. Then 'git branch' shows 'develop' and 'master'. They run 'touch f1.txt', 'git add .', and 'git commit -m "f1"'. The commit message is displayed, followed by 'git config --global --edit' and instructions on how to fix the identity. The final output shows '1 file changed, 0 insertions(+), 0 deletions(-)' and 'create mode 100644 f1.txt'.

```
ubuntu@ip-172-31-46-253:~/assignment3$ ls
develop.txt  main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git branch
develop
* f1
master
ubuntu@ip-172-31-46-253:~/assignment3$ ls
develop.txt  main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ touch f1.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git add .
ubuntu@ip-172-31-46-253:~/assignment3$ git commit -m "f1"
[f1 335bafc] f1
Committer: Ubuntu <ubuntu@ip-172-31-46-253.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

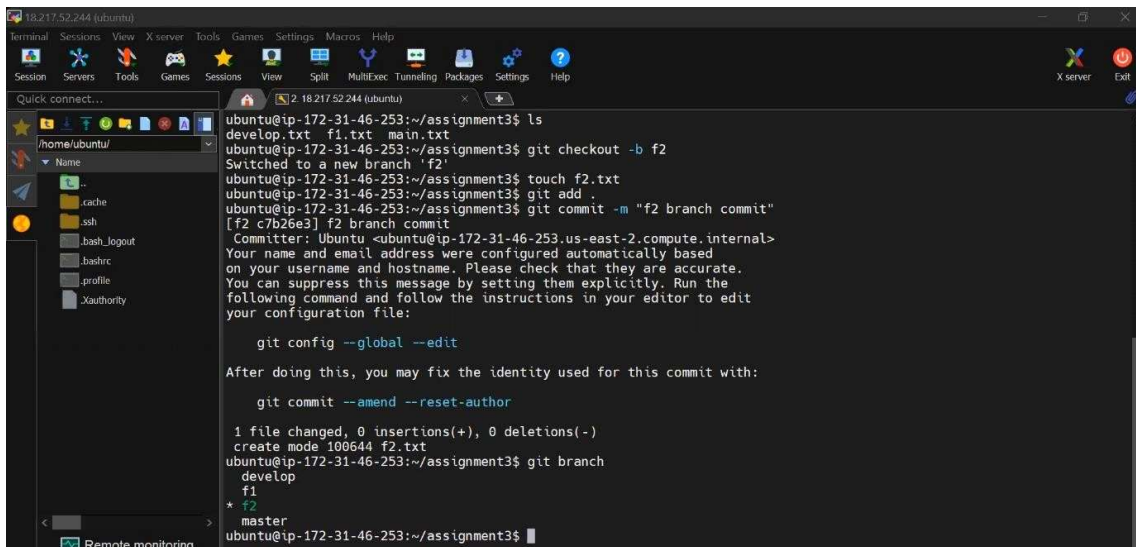
git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
ubuntu@ip-172-31-46-253:~/assignment3$
```

9. Also follow the same step to create another branch named f2 . Then again create a fileinside it , add it and commit it as well.

A terminal window titled '18.217.52.244 (ubuntu)' with a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. The left sidebar shows a file explorer for '/home/ubuntu/' with folders like .cache, .ssh, .bash\_logout, .bashrc, .profile, and .xauthority. The terminal output shows the user in the directory ~/assignment3. They run 'ls' showing 'develop.txt', 'f1.txt', and 'main.txt'. Then 'git checkout -b f2' switches to a new branch 'f2'. They run 'touch f2.txt', 'git add .', and 'git commit -m "f2 branch commit"'. The commit message is displayed, followed by 'git config --global --edit' and instructions on how to fix the identity. The final output shows '1 file changed, 0 insertions(+), 0 deletions(-)' and 'create mode 100644 f2.txt'.

```
ubuntu@ip-172-31-46-253:~/assignment3$ ls
develop.txt  f1.txt  main.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git checkout -b f2
Switched to a new branch 'f2'
ubuntu@ip-172-31-46-253:~/assignment3$ touch f2.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git add .
ubuntu@ip-172-31-46-253:~/assignment3$ git commit -m "f2 branch commit"
[f2 c7b26e3] f2 branch commit
Committer: Ubuntu <ubuntu@ip-172-31-46-253.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

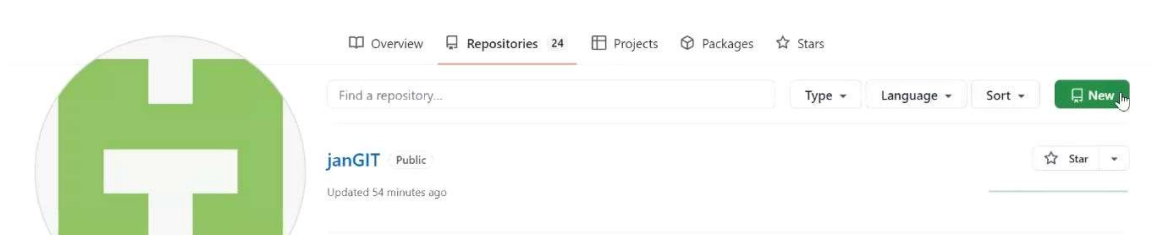
git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt
ubuntu@ip-172-31-46-253:~/assignment3$ git branch
develop
* f2
master
ubuntu@ip-172-31-46-253:~/assignment3$
```

10. Then go to you GitHub homepage , create a new repository.



11. Give it a name and click on create .

Create a new repository

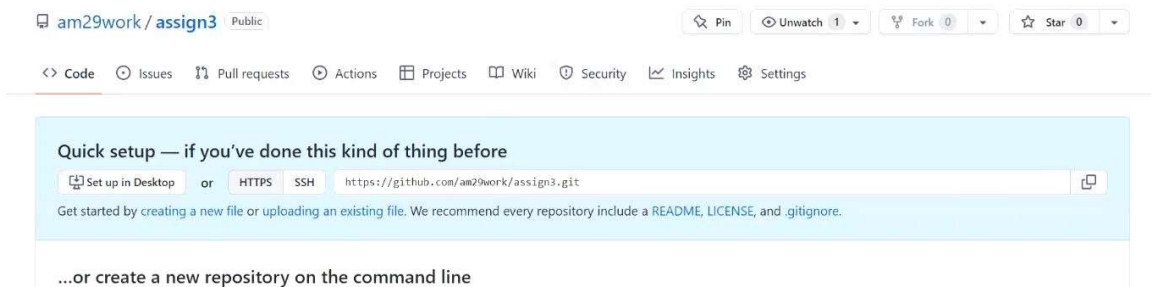
A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Owner \*  / Repository name \*

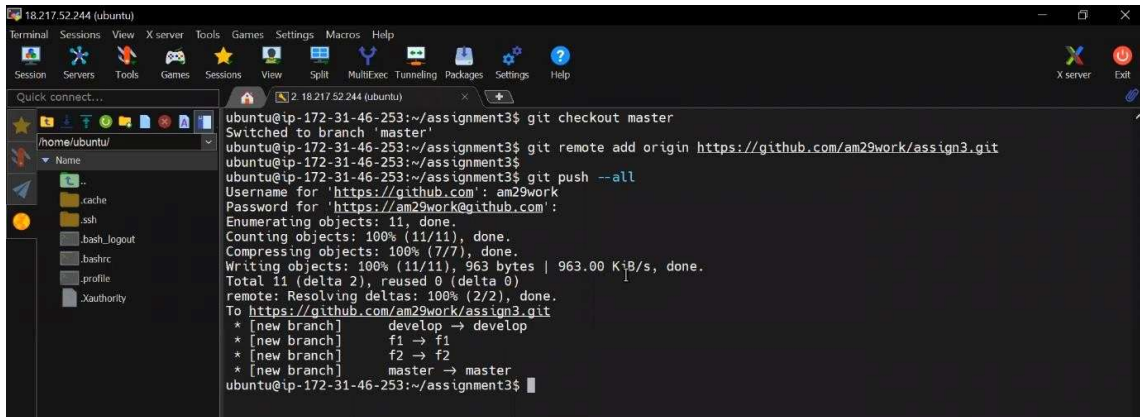
Great repository names are assign3 is available. ble. Need inspiration? How about [urban-bassoon](#)?

Description (optional)

12. Then you will see a HTTPS link , copy it and go back to your terminal.

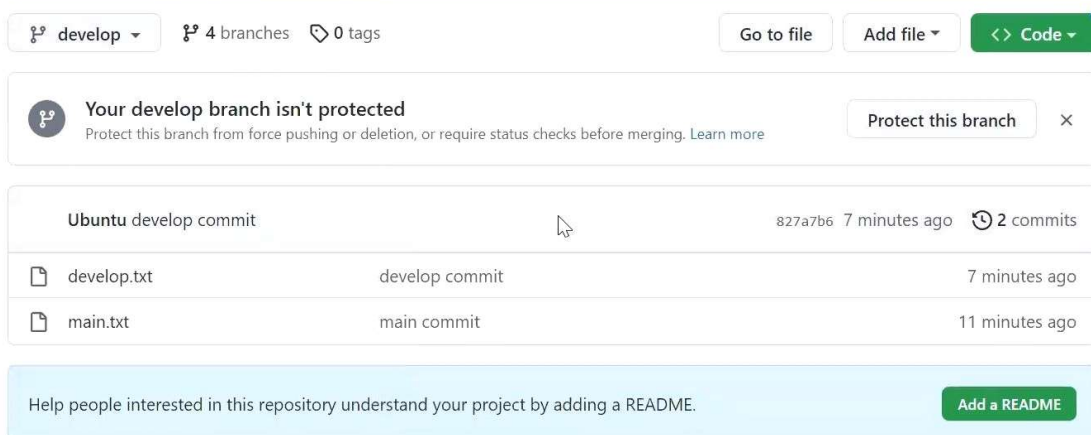


13. First type “git checkout master ” to go inside master branch . Then type “git remote add origin” and paste the copied link . Then type “git push --all” to push all the branches at the same time. Enter your username and the token which you have created previously as password and hit enter.

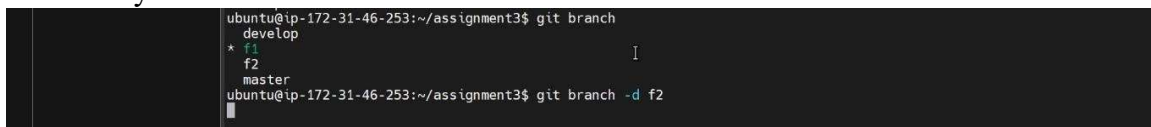


```
ubuntu@ip-172-31-46-253:~/assignment3$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-46-253:~/assignment3$ git remote add origin https://github.com/am29work/assign3.git
ubuntu@ip-172-31-46-253:~/assignment3$ git push --all
Username for 'https://github.com': am29work
Password for 'https://am29work@github.com':
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (11/11), 963 bytes | 963.00 KiB/s, done.
Total 11 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/am29work/assign3.git
 * [new branch]      develop -> develop
 * [new branch]      f1 -> f1
 * [new branch]      f2 -> f2
 * [new branch]      master -> master
ubuntu@ip-172-31-46-253:~/assignment3$
```

14. Now you will be able to see your branches on your GitHub repository.



15. To delete a branch , go to your terminal and type in “git branch ” . Make sure you are out of your branch before deleting it. Then type “git branch -D f2” to delete f2 branchonly.

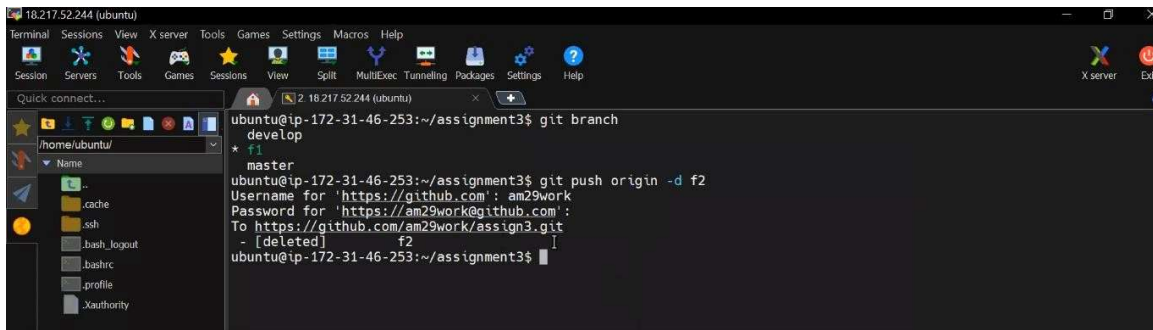


```
ubuntu@ip-172-31-46-253:~/assignment3$ git branch
* develop
  f1
  f2
  master
ubuntu@ip-172-31-46-253:~/assignment3$ git branch -d f2
```

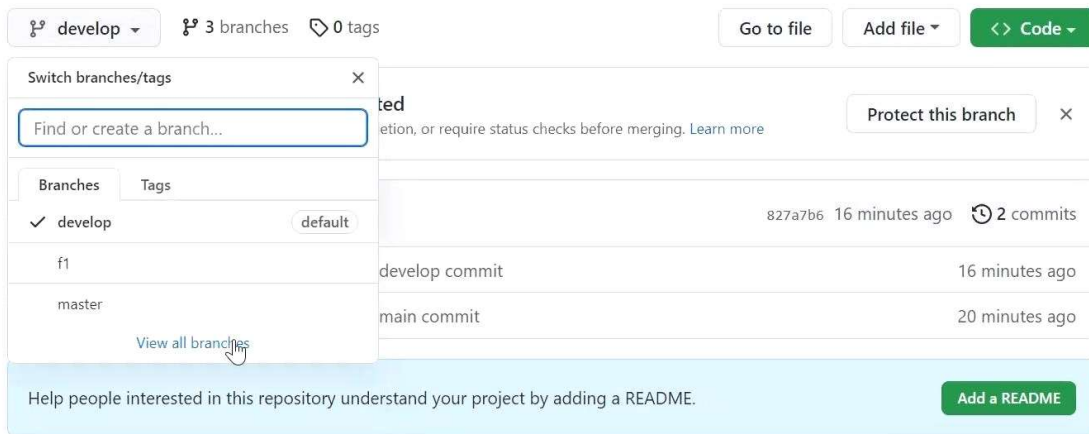
16. Enter username and password and your branch will be deleted successfully. It will



getdeleted from the GitHub repository page as well.



```
ubuntu@ip-172-31-46-253:~/assignment3$ git branch
develop
* f1
master
ubuntu@ip-172-31-46-253:~/assignment3$ git push origin -d f2
Username for 'https://github.com': am29work
Password for 'https://am29work@github.com':
To https://github.com/am29work/assign3.git
- [deleted]
  f2
ubuntu@ip-172-31-46-253:~/assignment3$
```



develop 3 branches 0 tags

Go to file Add file <> Code

Switch branches/tags

Find or create a branch...

Branches Tags

- ✓ develop default
- f1
- master

View all branches

Protected branch: 827a7b6 16 minutes ago 2 commits

develop commit 16 minutes ago

main commit 20 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README