Assignment No. 2

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Tasks:

1. Create a Git working directory with feature1.tyxt and feature2.txt in the master branch.

2. Create 3 branches develop, feature1 and feature2

3. In develop branch, create develop.txt, do not stage or commit it

4. Stash this file and check out to feature1 branch

5. Create new.txt file in feature1 branch, stage and commit this file

6. Checkout to develop, unstash this file and commit

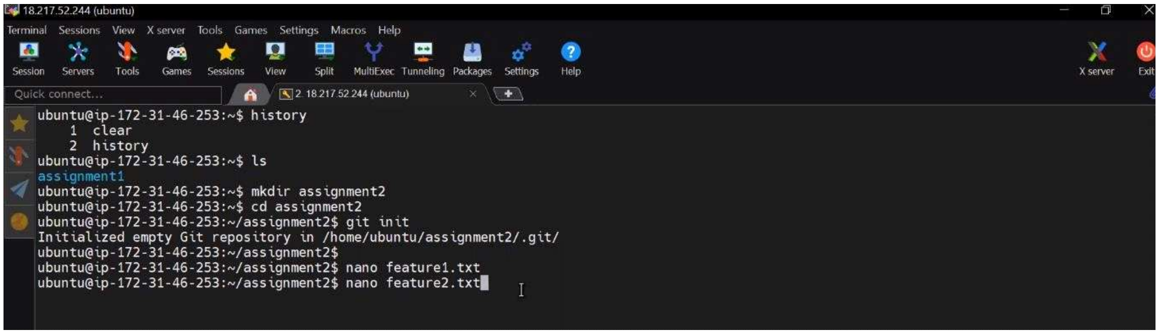
7. Please submit all the fit commands used to do the above steps.

Solution:

Steps:

1. Go to your terminal and create a new folder . To do that type in “mkdir assignment2” and hit enter . Once the folder is created , type in “cd assignment2” to go inside the folder . Then to make it accept the Git commands type in “git init” and hit enter .

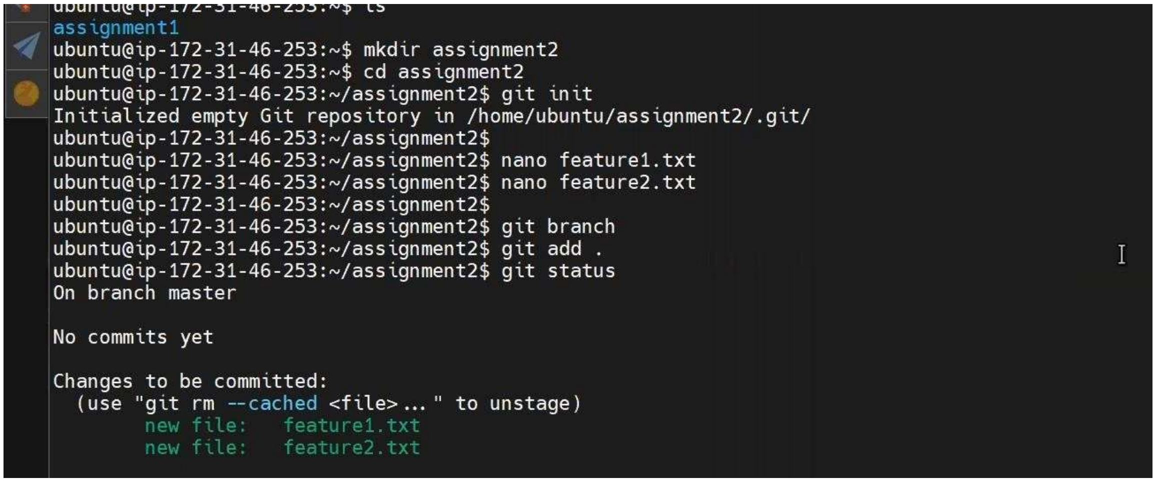
   -Then create two files inside the folder by typing “nano feature1.txt” and “nanofeature2.txt”.



18.217.52.244 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 18.217.52.244 (ubuntu)

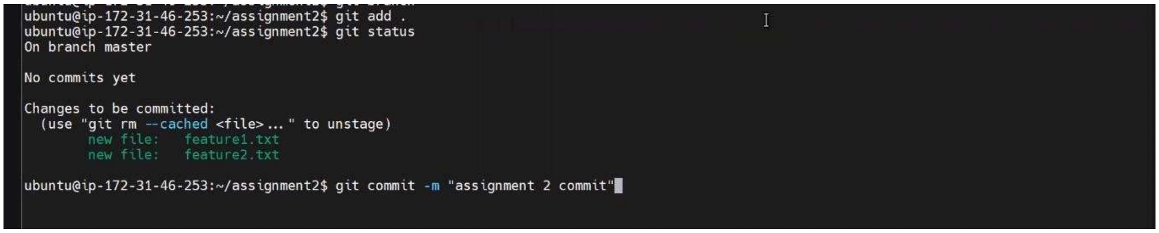
```
ubuntu@ip-172-31-46-253:~$ history
    1  clear
    2  history
ubuntu@ip-172-31-46-253:~$ ls
assignment1
ubuntu@ip-172-31-46-253:~$ mkdir assignment2
ubuntu@ip-172-31-46-253:~$ cd assignment2
ubuntu@ip-172-31-46-253:~/assignment2$ git init
Initialized empty Git repository in /home/ubuntu/assignment2/.git/
ubuntu@ip-172-31-46-253:~/assignment2$
ubuntu@ip-172-31-46-253:~/assignment2$ nano feature1.txt
ubuntu@ip-172-31-46-253:~/assignment2$ nano feature2.txt
```

2. Once the files are created the next step is to see which branch are we currently inside of . So type in “git branch ” and hit enter . Then type in “git add . ” to add all the files that we have created inside the branch.



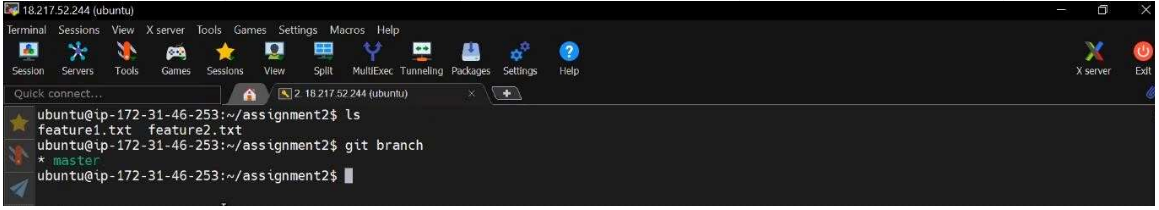
```
ubuntu@ip-172-31-46-253:~$ ls
assignment1
ubuntu@ip-172-31-46-253:~$ mkdir assignment2
ubuntu@ip-172-31-46-253:~$ cd assignment2
ubuntu@ip-172-31-46-253:~/assignment2$ git init
Initialized empty Git repository in /home/ubuntu/assignment2/.git/
ubuntu@ip-172-31-46-253:~/assignment2$
ubuntu@ip-172-31-46-253:~/assignment2$ nano feature1.txt
ubuntu@ip-172-31-46-253:~/assignment2$ nano feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
ubuntu@ip-172-31-46-253:~/assignment2$ git add .
ubuntu@ip-172-31-46-253:~/assignment2$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   feature1.txt
        new file:   feature2.txt
```

3. After that type in the command “git commit -m “assignment 2 commit” ” and hit enter to commit the files .



```
ubuntu@ip-172-31-46-253:~/assignment2$ git add .
ubuntu@ip-172-31-46-253:~/assignment2$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   feature1.txt
        new file:   feature2.txt

ubuntu@ip-172-31-46-253:~/assignment2$ git commit -m "assignment 2 commit"
```

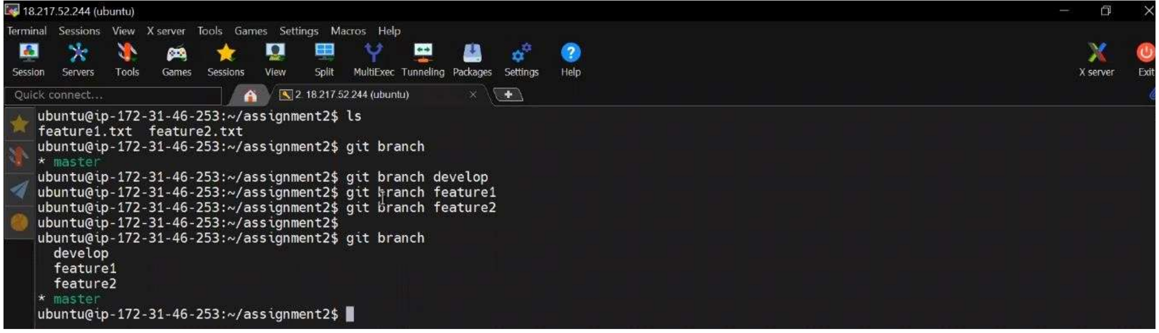
4. Then type in “git branch ” to see your branch in which you files are currently present.



18.217.52.244 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 18.217.52.244 (ubuntu)

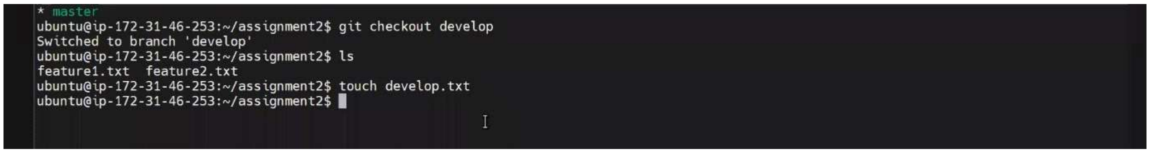
```
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
* master
ubuntu@ip-172-31-46-253:~/assignment2$
```

5.Now to create other branches , type in the command “git branch develop” and hit enter . Similarly created branch feature1 and feature2.


18.217.52.244 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 18.217.52.244 (ubuntu)

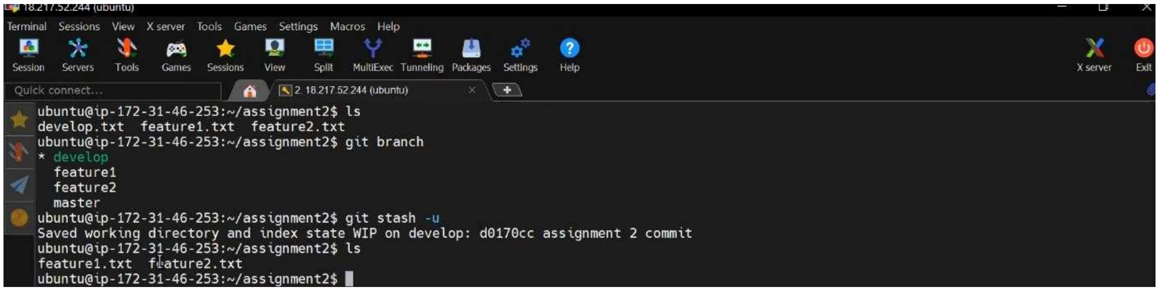
```
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
* master
ubuntu@ip-172-31-46-253:~/assignment2$ git branch develop
ubuntu@ip-172-31-46-253:~/assignment2$ git branch feature1
ubuntu@ip-172-31-46-253:~/assignment2$ git branch feature2
ubuntu@ip-172-31-46-253:~/assignment2$
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
  develop
  feature1
  feature2
* master
ubuntu@ip-172-31-46-253:~/assignment2$ 
```

6. Now to go inside the develop branch type in the command “git checkout develop” and hit enter . Once you are inside the branch create a file using “touch develop.txt” command.



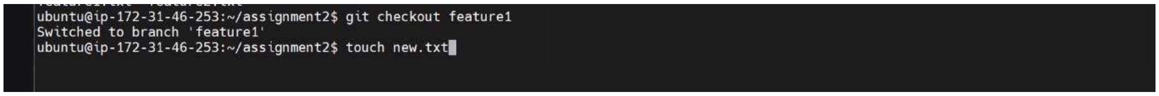
```
* master
ubuntu@ip-172-31-46-253:~/assignment2$ git checkout develop
Switched to branch 'develop'
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ touch develop.txt
ubuntu@ip-172-31-46-253:~/assignment2$ 
```

7. Now to stash the file inside the develop branch , type in “git stash -u ” and hit enter . Hence the develop.txt file will get hidden. You can check if the file is hidden using ls command .


18.217.52.244 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 18.217.52.244 (ubuntu)

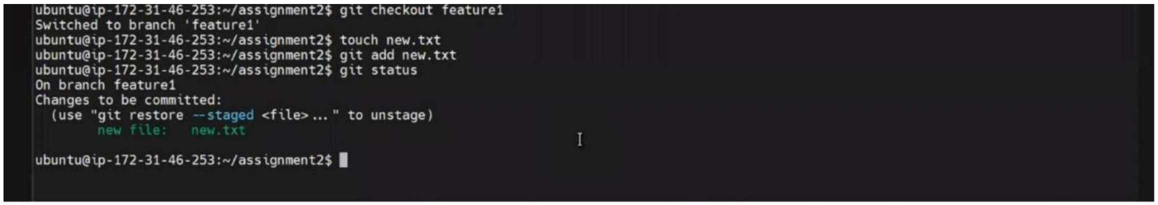
```
ubuntu@ip-172-31-46-253:~/assignment2$ ls
develop.txt  feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
* develop
  feature1
  feature2
  master
ubuntu@ip-172-31-46-253:~/assignment2$ git stash -u
Saved working directory and index state WIP on develop: d0170cc assignment 2 commit
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ 
```

8. Now to create files inside feature branch , type in “git checkout feature1” and hit enter . Create a file inside the feature branch as well using “touch new.txt ” command.

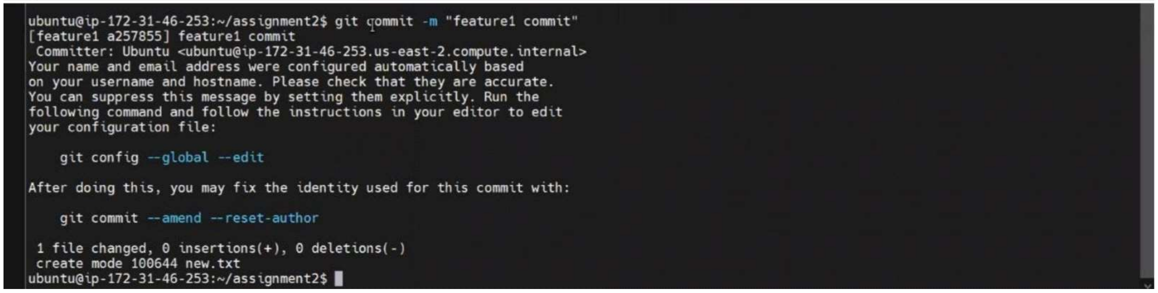


```
ubuntu@ip-172-31-46-253:~/assignment2$ git checkout feature1
Switched to branch 'feature1'
ubuntu@ip-172-31-46-253:~/assignment2$ touch new.txt
```

9. Now commit the file using “git commit -m “feature1 commit” ” command .

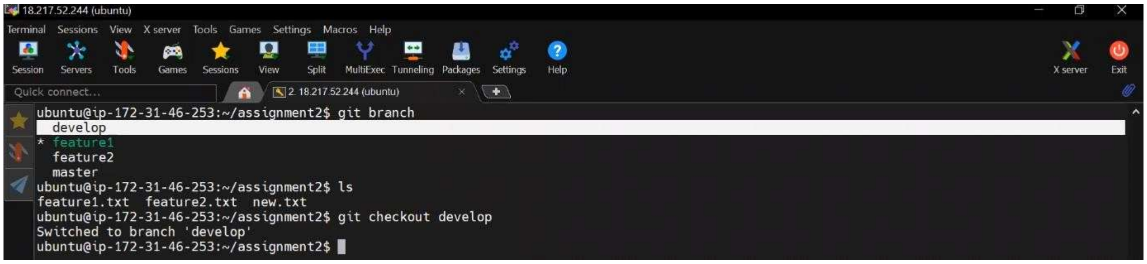


```
ubuntu@ip-172-31-46-253:~/assignment2$ git checkout feature1
Switched to branch 'feature1'
ubuntu@ip-172-31-46-253:~/assignment2$ touch new.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git add new.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git status
On branch feature1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new.txt

ubuntu@ip-172-31-46-253:~/assignment2$ █
```



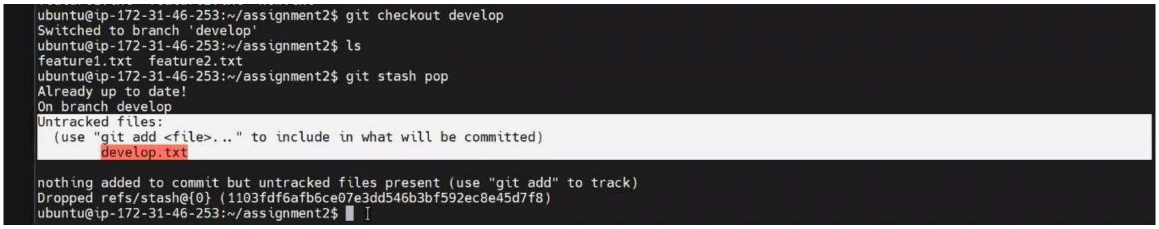
```
ubuntu@ip-172-31-46-253:~/assignment2$ git commit -m "feature1 commit"
[feature1 a257855] feature1 commit
 Committer: Ubuntu <ubuntu@ip-172-31-46-253.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are 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 new.txt
ubuntu@ip-172-31-46-253:~/assignment2$ █
```

10. After that go to your develop branch again .



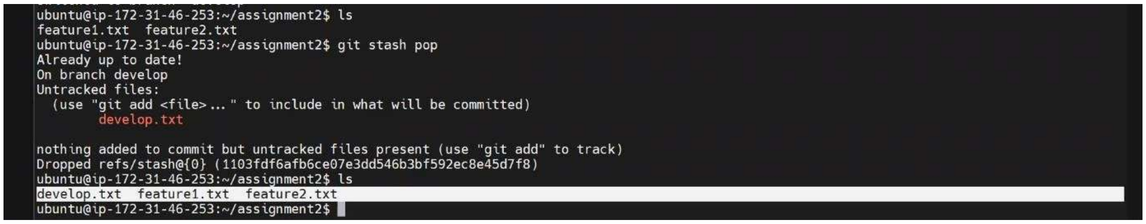
```
ubuntu@ip-172-31-46-253:~/assignment2$ git branch
  develop
* feature1
  feature2
  master
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt  new.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git checkout develop
Switched to branch 'develop'
ubuntu@ip-172-31-46-253:~/assignment2$ █
```

11. To unstash the file which you have stashed previously simply type in "git stash pop"and hit enter .



```
ubuntu@ip-172-31-46-253:~/assignment2$ git checkout develop
Switched to branch 'develop'
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git stash pop
Already up to date!
On branch develop
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        develop.txt

nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (1103fdf6afb6ce07e3dd546b3bf592ec8e45d7f8)
ubuntu@ip-172-31-46-253:~/assignment2$ █
```

12. Then use the ls command and you can see that the develop.txt file is now visible .



```
ubuntu@ip-172-31-46-253:~/assignment2$ ls
feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$ git stash pop
Already up to date!
On branch develop
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        develop.txt

nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (1103fdf6afb6ce07e3dd546b3bf592ec8e45d7f8)
ubuntu@ip-172-31-46-253:~/assignment2$ ls
develop.txt  feature1.txt  feature2.txt
ubuntu@ip-172-31-46-253:~/assignment2$
```