Assignment No. 4

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Tasks:

1. Put master.txt on master branch, stage and commit

2. Create 3 branches: public1, public2 and private

3.Put public1.txt on public1 branch, stage and commit

4. Merge public1 on master branch

5. Merge public2 on master branch

6. Edit master.txt on private branch, stage and commit

7.Now, update branch public1 and public2 with new master code in private

8. Also, update new master code on master

9. Finally update all the code on the private branch

Solution:

Steps:

1. First create new directory using mkdir command . Then use cd command to go insidethe directory. Type in “git init ” command to make it accept all the git related commands .

-Then create a master.txt file using “touch master.txt” command . Add the file using“git add master.txt” command . And finally commit it using “git commit -m “1” .

```
ubuntu@ip-172-31-46-253:~$ mkdir assignment4
ubuntu@ip-172-31-46-253:~$ cd assignment4
ubuntu@ip-172-31-46-253:~/assignment4$ git init
Initialized empty Git repository in /home/ubuntu/assignment4/.git/
ubuntu@ip-172-31-46-253:~/assignment4$ touch master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ git add master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ git commit -m "1"
[master (root-commit) 50395b0] 1
 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 master.txt
ubuntu@ip-172-31-46-253:~/assignment4$
```

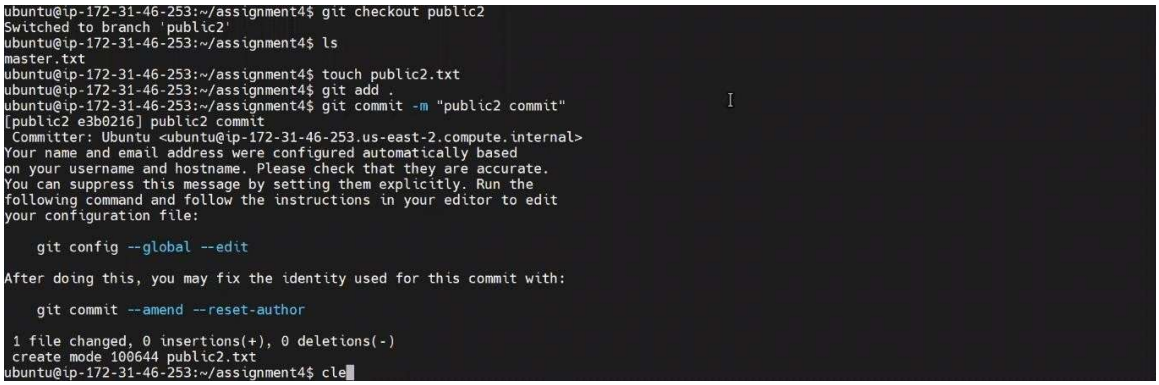
2. Now create new branches using “git branch” command . Name them as public1 ,public2, private.

```
ubuntu@ip-172-31-46-253:~/assignment4$ git branch
* master
ubuntu@ip-172-31-46-253:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ git branch public1
ubuntu@ip-172-31-46-253:~/assignment4$ git branch public2
ubuntu@ip-172-31-46-253:~/assignment4$ git branch private
ubuntu@ip-172-31-46-253:~/assignment4$ git branch
* master
  private
  public1
  public2
ubuntu@ip-172-31-46-253:~/assignment4$
```

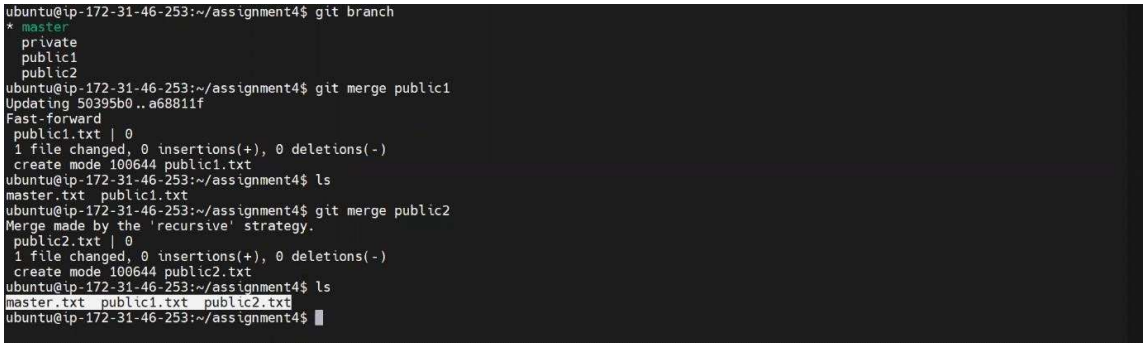
3. Use “git checkout public1” command to go inside your public1 branch . Add a fileusing “touch public1.txt” command . Add it using “git add “ and finally commit it using “git commit -m” command .

```
ubuntu@ip-172-31-46-253:~/assignment4$ git checkout public1
Switched to branch 'public1'
ubuntu@ip-172-31-46-253:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ touch public1.txt
ubuntu@ip-172-31-46-253:~/assignment4$ ls
master.txt  public1.txt
ubuntu@ip-172-31-46-253:~/assignment4$ git add .
ubuntu@ip-172-31-46-253:~/assignment4$ git commit -m "public1 commit"
[public1 a68811f] public1 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 public1.txt
ubuntu@ip-172-31-46-253:~/assignment4$
```

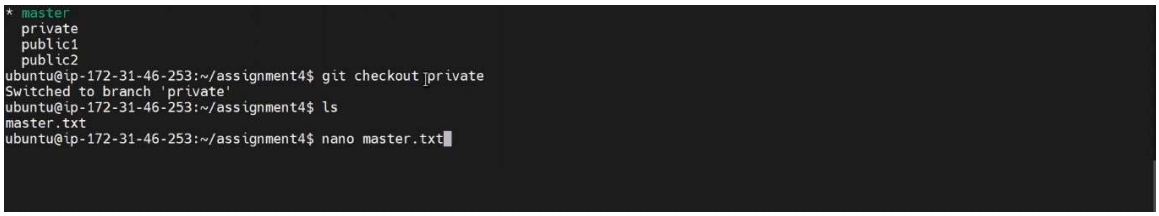
4. Similarly go to your public2 branch and create a file as public2.txt . Add it as well andcommit it .



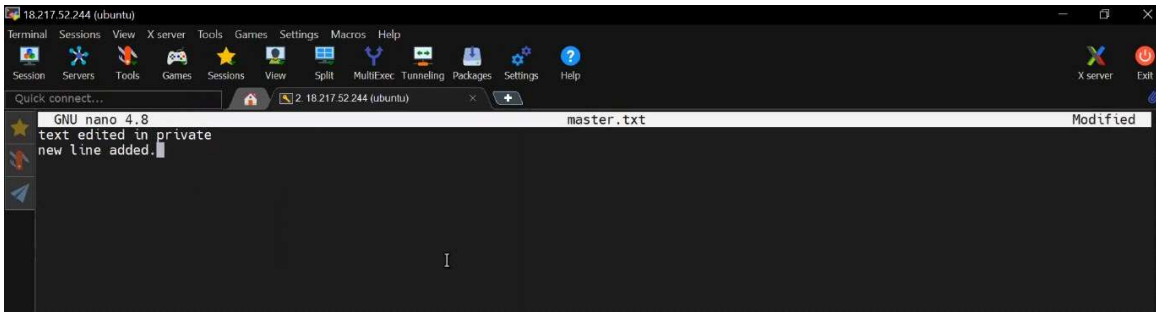
5. Now to merge the branches with your master branch make sure that you are inside your master branch . Then type in “git merge public1” and “git merge public2” and hit enter.



6. Now go to your private branch using “git checkout private” . Type in “nanomaster.txt” to create a file and add a text in it.



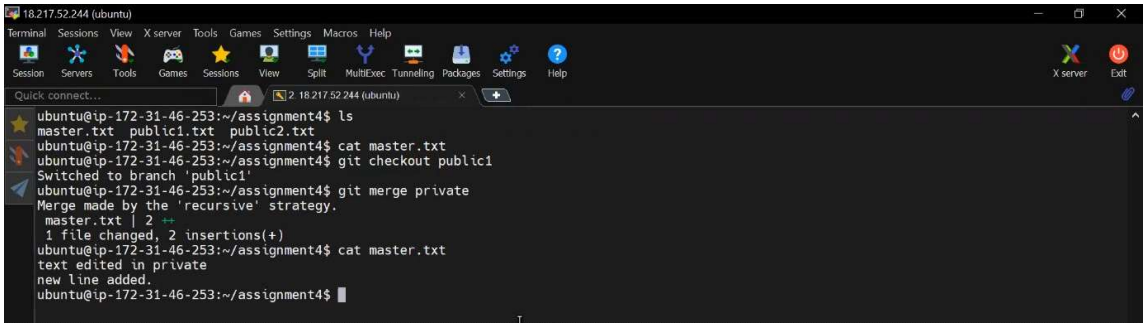
7. Add the text and click ctrl+s and ctrl+x .



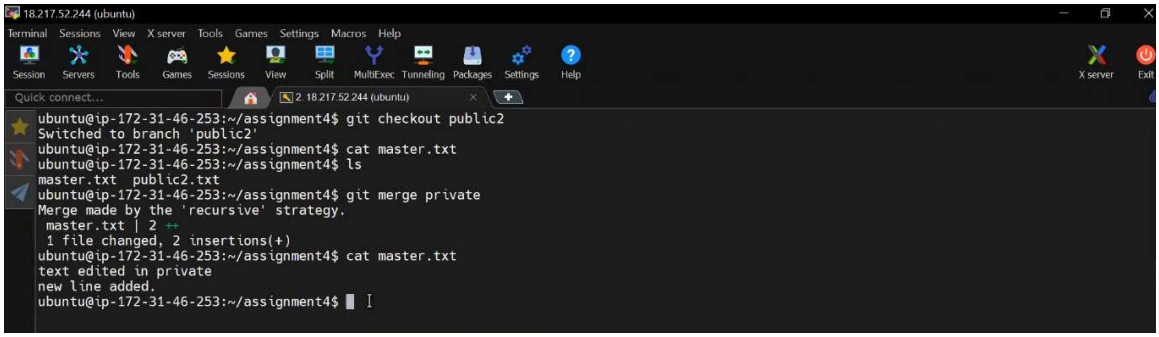
8. Then add the file using “git add” and commit it using “git commit -m ” commandrespectively.

```
 public2
ubuntu@ip-172-31-46-253:~/assignment4$ git checkout private
Switched to branch 'private'
ubuntu@ip-172-31-46-253:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ nano master.txt
ubuntu@ip-172-31-46-253:~/assignment4$ git status
On branch private
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   master.txt

no changes added to commit (use "git add" and/or "git commit -a")
ubuntu@ip-172-31-46-253:~/assignment4$ git add .
ubuntu@ip-172-31-46-253:~/assignment4$ git commit -m "2"
```

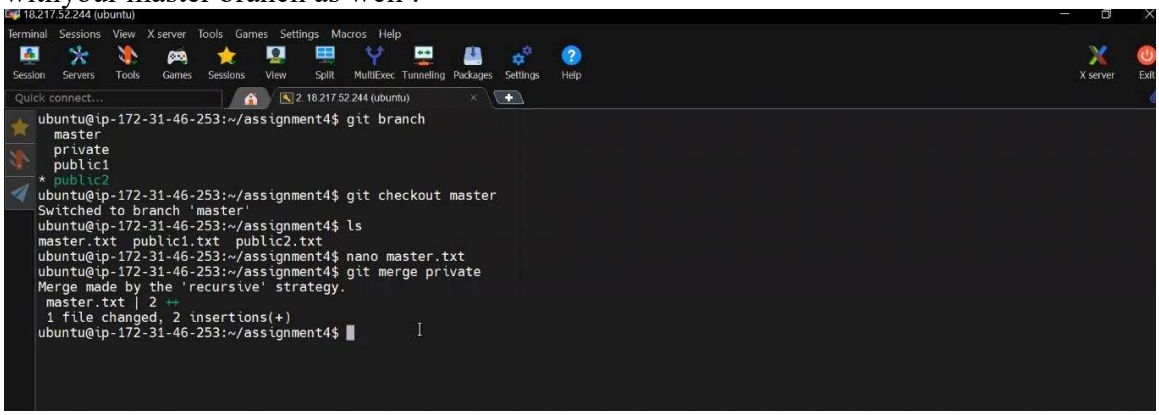
9. Now, go to your public branch and type in “git merge private” to merge your privatebranch and the contents inside it to your public1 branch. Then your can see the text file of your private branch inside your public branch by typing in “cat master.txt” command.



10. Similarly follow the same step inside your public2 branch . Merge it with privatebranch as well.



11. Finally go to your master branch and use the “git merge private ” to merge it withyour master branch as well .



12. And then use the cat command and you will see the file which is present in public1and public2 inside your master branch as well