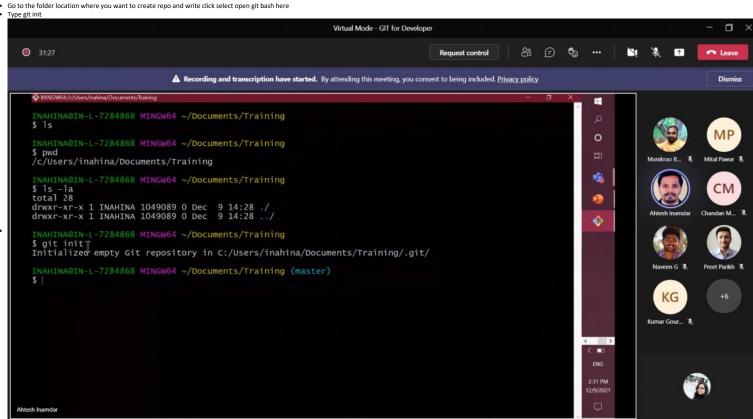
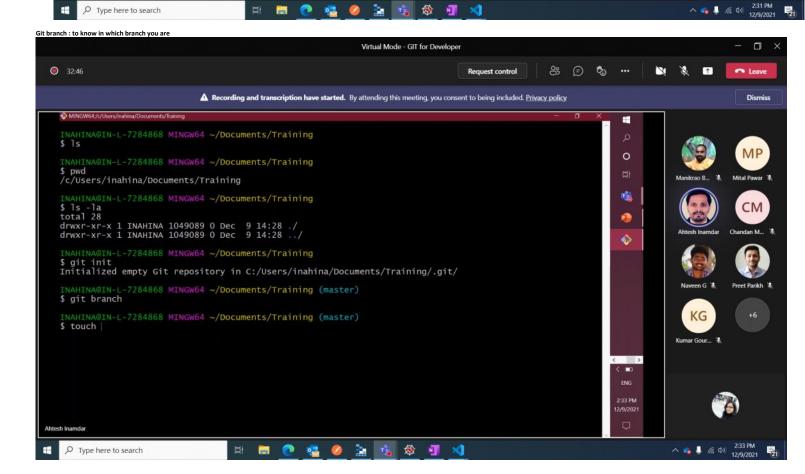
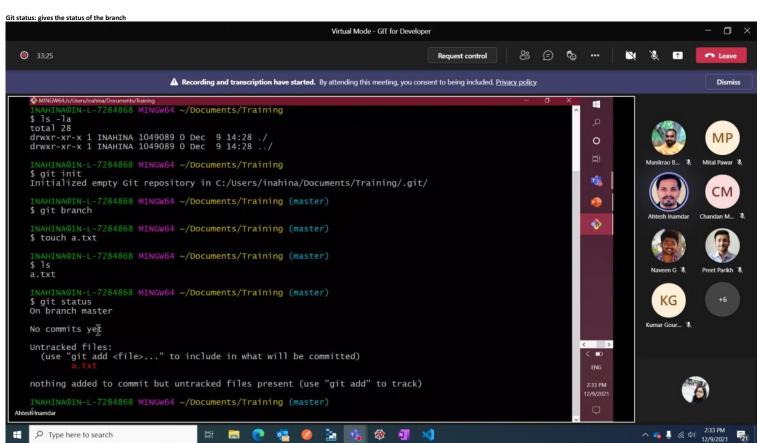


Git Init: Initialize git repository

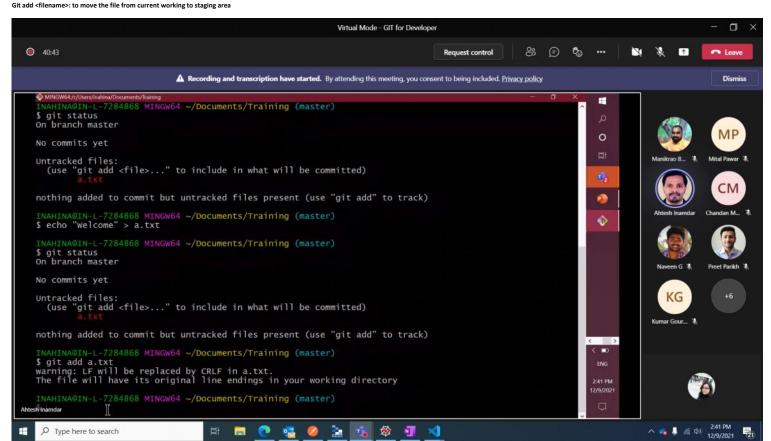
- Open git bash
 Write linux commands here



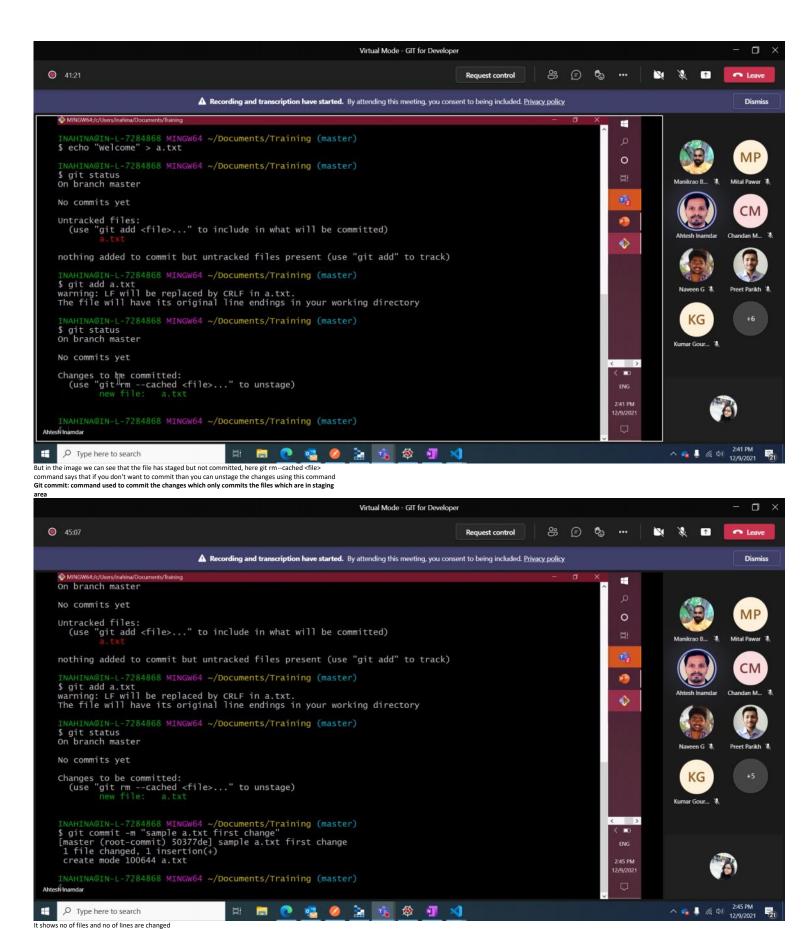




We are in master branch and there is no commit in this branch it has a.txt file this is new file and to commit this file we need to add this file first

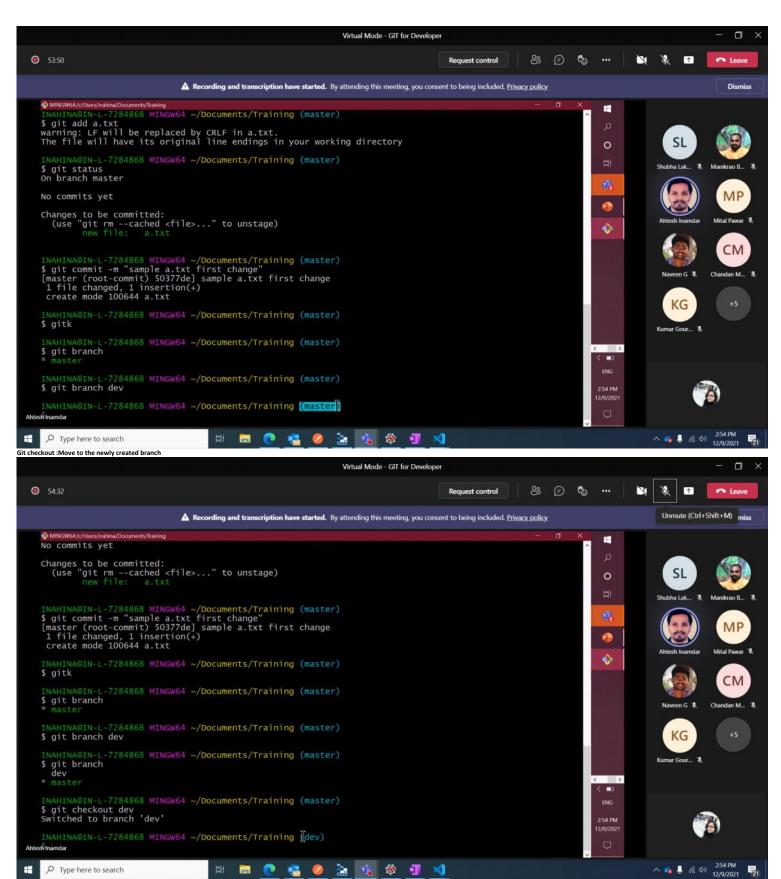


How to check the status of the file that it has staged? By using status command

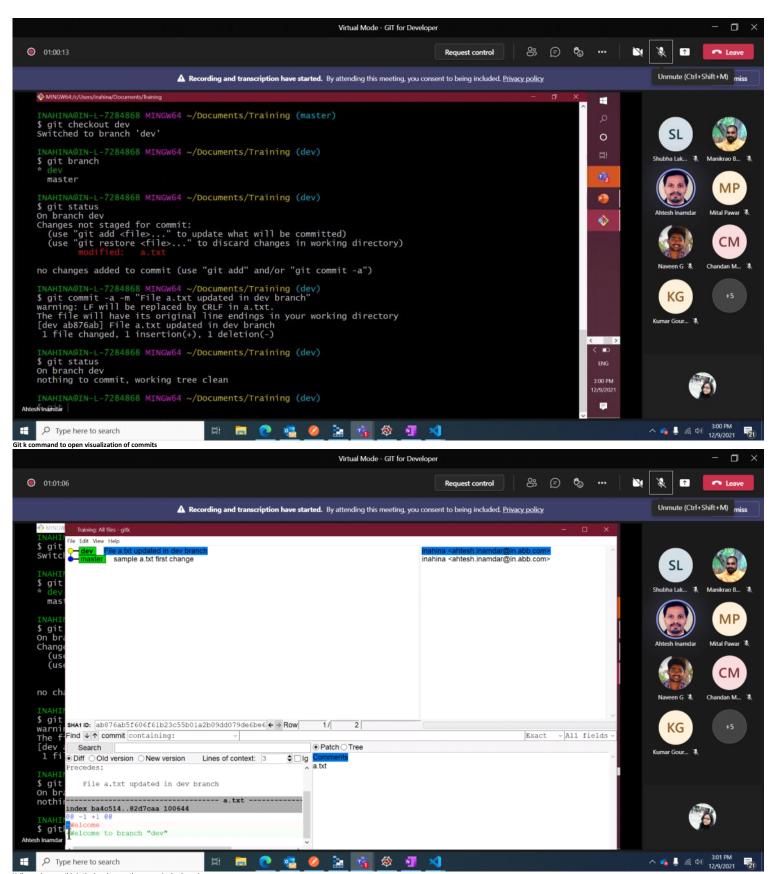


Every commit has unique id generated after commit

Check in which branch you are and then create dev branch in it

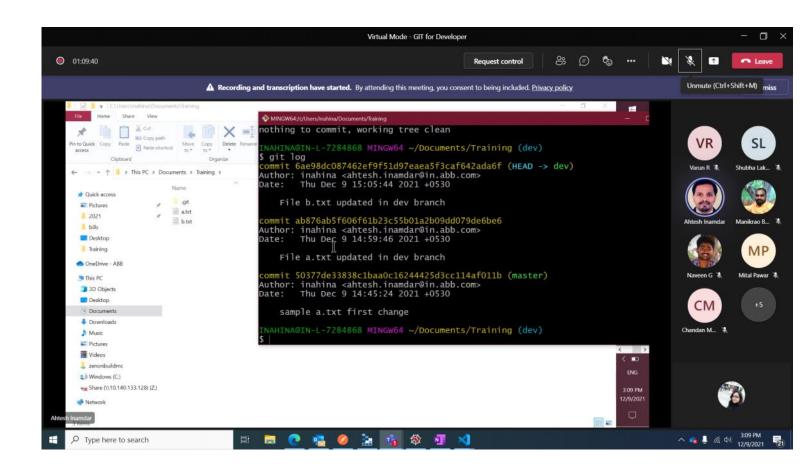


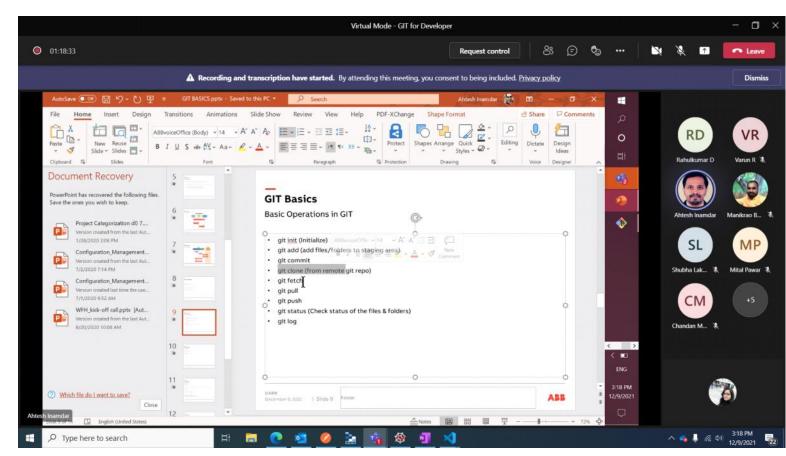
do 2 things together add and commit with this command



Yellow color says this is the head currently you are in dev branch

Git log: to check latest activity or commit

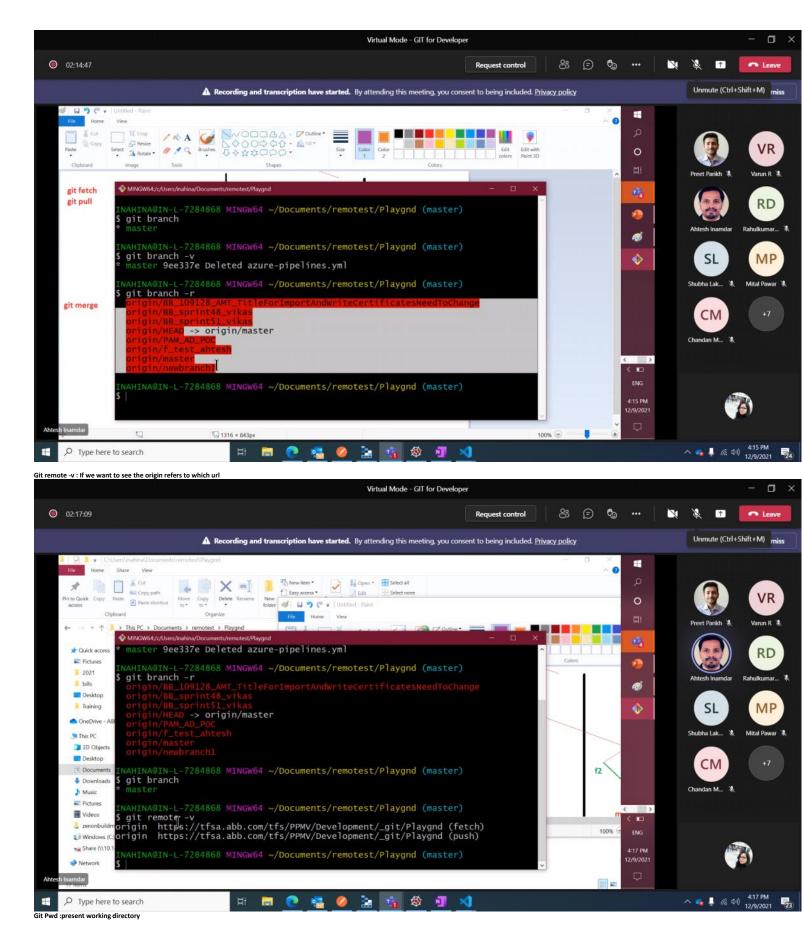




Git merge, merges the local master changes to the feature branch

Difference between fetch and pull
Git pull = git fetch + git merge: it replace all the local changes with remote, if we have not committed
the local changes then will lost them. It auto merge all the changes
Git fetch: fetch all the changes from remote
Git merge: merge local master changes to the feature branch(current working branch)
Note: it's always good practice to use git fetch command instead of git pull as the non -committed
changes will be lost

Git branch: Show all the branch exist for the repo



Git reset :to remove commit from the remote branch

Command: Git status

Thursday, February 24, 2022 11:35 AM

Git status gives the status of your local repository like how many commits you have done and is there any file has changes or is in staged area or your branch is up to date with master or you need to push your commits to the master.

```
/Desktop/testGit (master)
$ git commit -m 'text file added'
[master 925a8a9] text file added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test/txtfile1.txt
INSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
$ git add .
INSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
         modified: test/txtfile1.txt
INSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
$ git commit -m 'text is added in text file'
[master bee1cd7] text is added in text file
  1 file changed, 1 insertion(+)
INSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.

(use "git push" to publish your local commits)
nothing to commit, working tree clean
```

1. Text file committed

Command: git checkout -- filename

Thursday, February 24, 2022 3:13 PM

If by mistakenly you have done some changes you want to discard it or say want the master file Then we can discard it from UI which is showing under changes

If we want to do it from command line then git checkout -- file1.txt is used

If suppose then you have 3 to 4 times commit and you realize that one of those were working better than current one and we want to get back those particular commit changes so that can be done using 2 command

- 1. Git checkout <copy 7 to 8 initial no of the particular commit id > -- <filename>(git checkout 3bf31b338 -- file1.txt)
- 2. Git reset HEAD file1.txt

Command: git commit --amend -m 'message'

Thursday, February 24, 2022 3:52 PM

When you want to change the message or some file in the last commit but not really want to make a new commit at that time this amend can be used

```
NSHAMAGEAN - 7373 - 85 s git log commit beelcd75f06e8a3b3374df1a1a3cb6a70eead8a6 (HEAD -> master) withor: shrutiAgrawa127 <shruti.vivek17@gmail.com> oate: Thu Feb 24 10:40:09 2022 +0530
       text is added in text file
commit 925a8a94e03a39728bf23b8f1c555f5cae619f5d

Author: shrutiAgrawal27 <shruti.vivek17@gmail.com>

Date: Thu Feb 24 10:35:17 2022 +0530
       text file added
commit 313a2781a7477e6e4bc9e3e9b098bb218aa61209 (origin/master)
Author: shrutiAgrawa127 <shruti.vivek17@gmail.com>
Date: Wed Feb 23 12:13:11 2022 +0530
commit ecdc70bd757ed68d55394197d3cceb2ae8ef8a79
wuthor: shrutiAgrawal27 <shruti.vivek17@gmail.com>
bate: Wed Feb 23 12:09:14 2022 +0530
      first commit
NSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
ggit commit --amend -m 'sample text is added'
(master f075935] sample text is added
Date: Thu Feb 24 10:40:09 2022 +0530
1 file changed, 1 insertion(+)
  NSHAGR@IN-L-7397978 MINGW64 ~/Desktop/testGit (master)
NSHAGAGATA-733-30

Signit log

Commit f075935615333fadbcca0a7ab20979d52b2ffd42 (HEAD -> master)

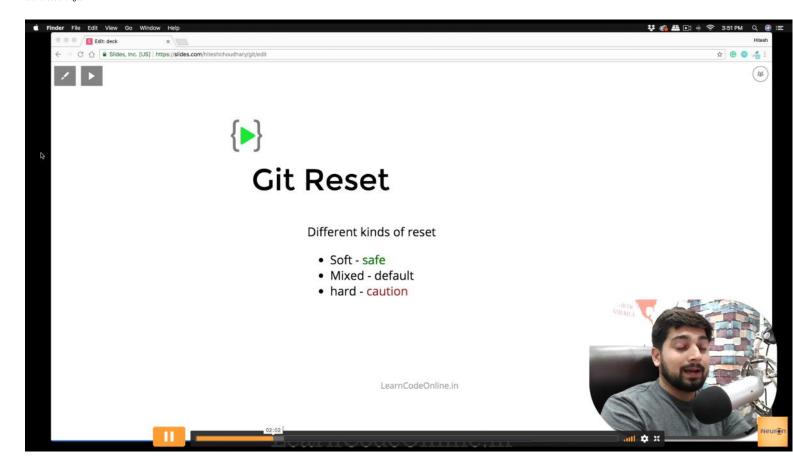
Author: shrutiAgrawa127 <shruti.vivek17@gmail.com>

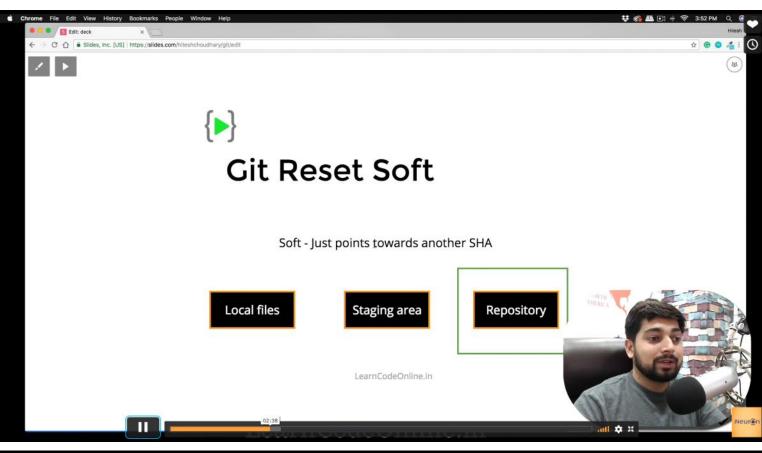
Date: Thu Feb 24 10:40:09 2022 +0530
      sample text is added
 ommit 925a8a94e03a39728bf23b8f1c555f5cae619f5d
uthor: shrutiAgrawal27 <shruti.vivek17@gmail.com>
ate: Thu Feb 24 10:35:17 2022 +0530
      text file added
commit 313a2781a7477e6e4bc9e3e9b098bb218aa61209 (origin/master)
uuthor: shrutiAgrawal27 <shruti.vivek17@gmail.com>
Date: Wed Feb 23 12:13:11 2022 +0530
 ommit ecdc70bd757ed68d55394197d3cceb2ae8ef8a79
uthor: shrutiAgrawa127 <shruti.vivek17@gmail.com>
ate: Wed Feb 23 12:09:14 2022 +0530
       first commit
```

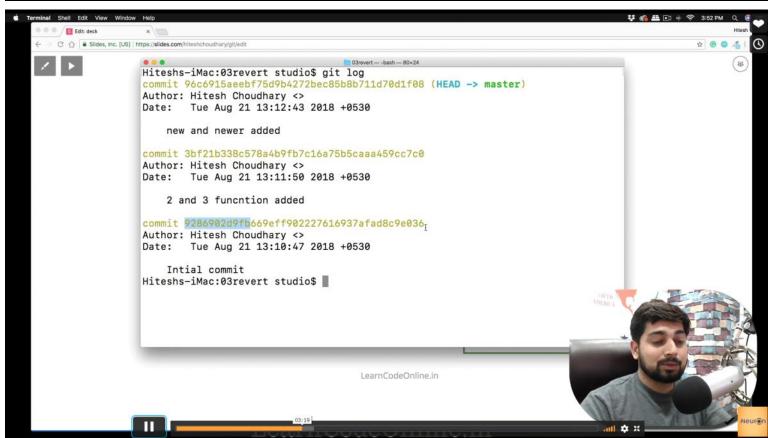
So here in git log we can see the last commit has comment like 'text is added in text file' we want to change the comment but not want to create a new commit so that is done by using amend command and in the next log we can see that the comment has been changed. We can observe here that the commit id has also changed but total no of commits are same and date of commit is also same it has not changed lie 4 which means no new commit has added we have modified the previous commit.

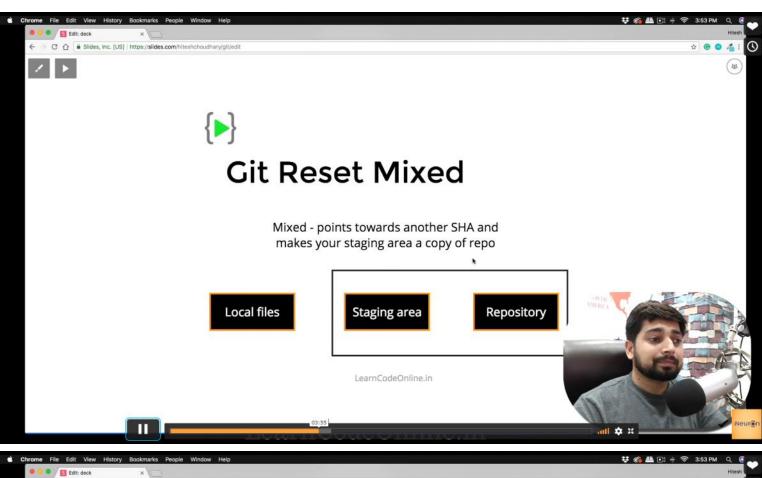
So this can used to handle very small changes

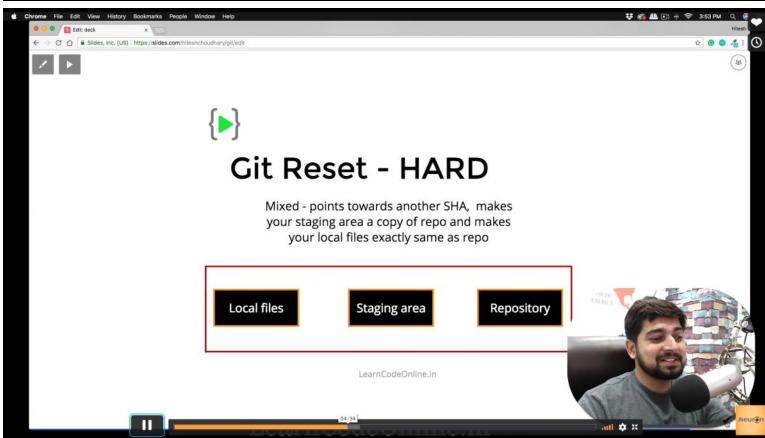
Git reset soft actually moves the HEAD pointer from current or recent commit to the desired commit, it also means that that if you moved to third last commit then 2nd last and 1st last commit will be gone and there is no way we can get back those changes.

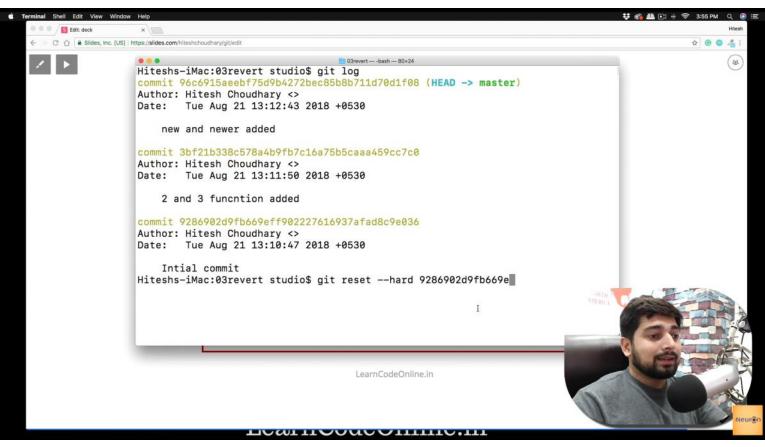


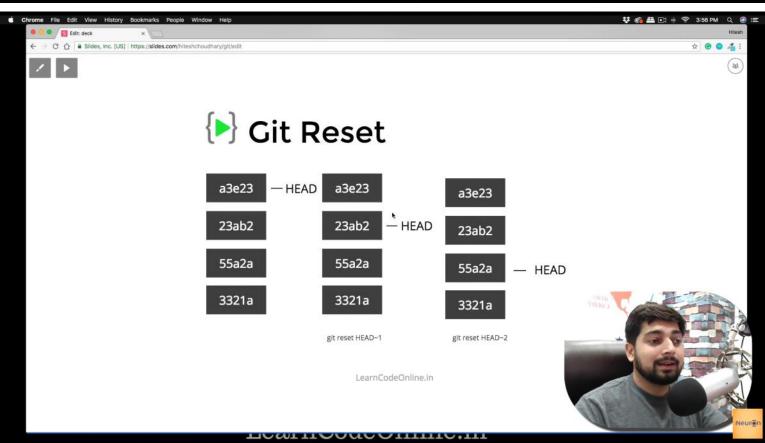


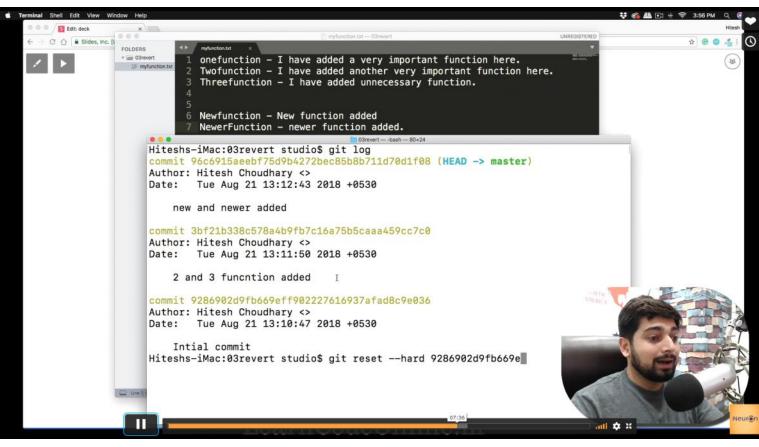


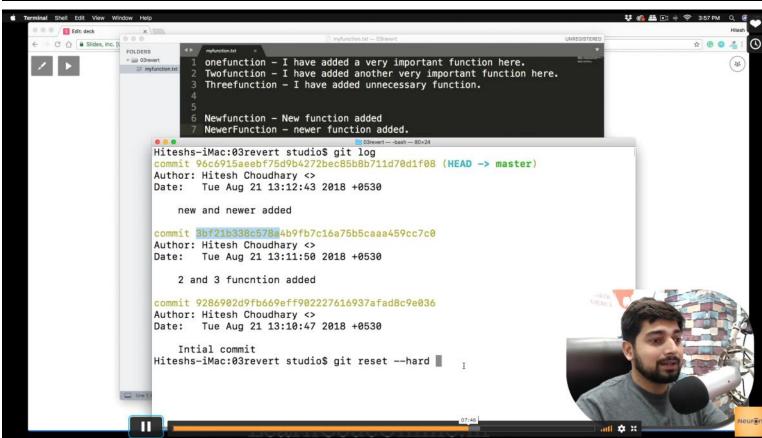


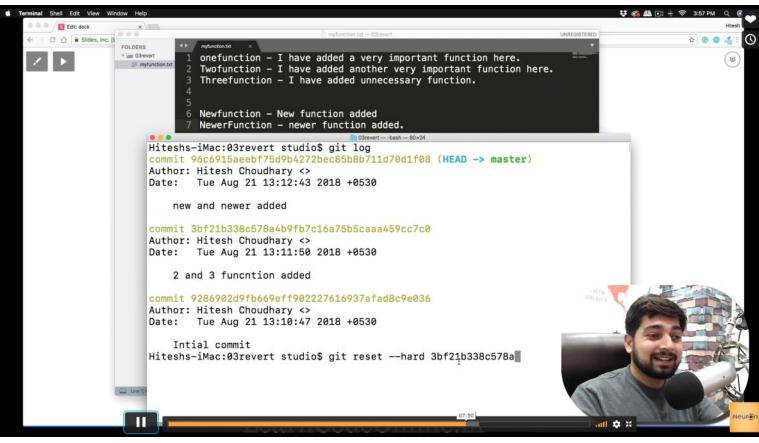


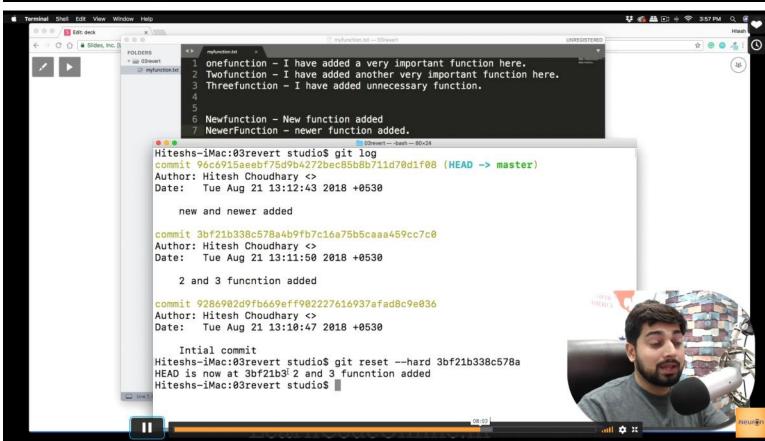


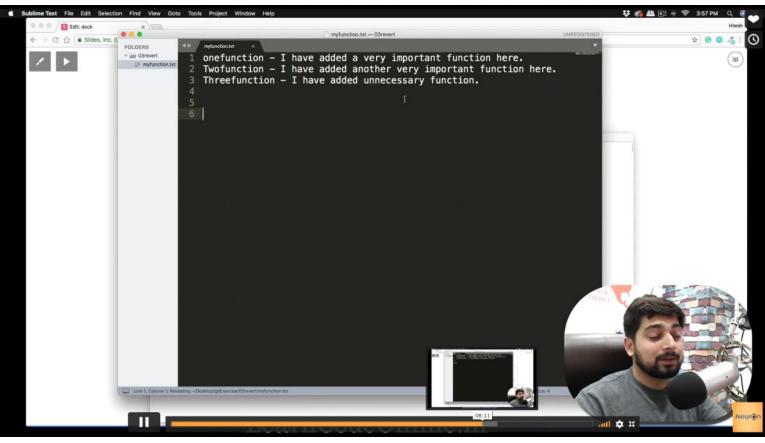


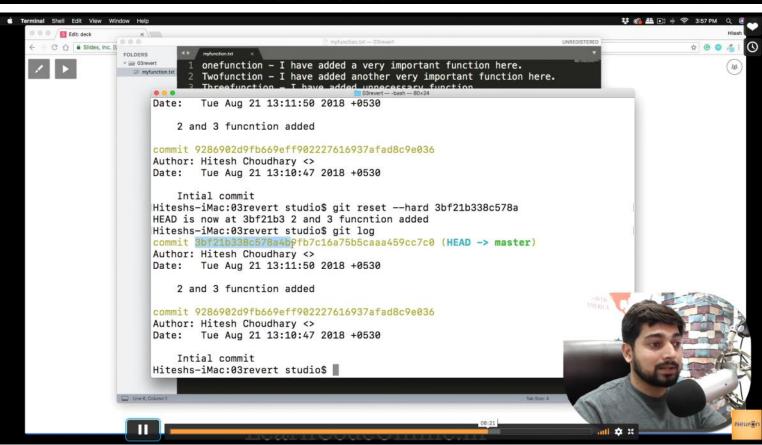


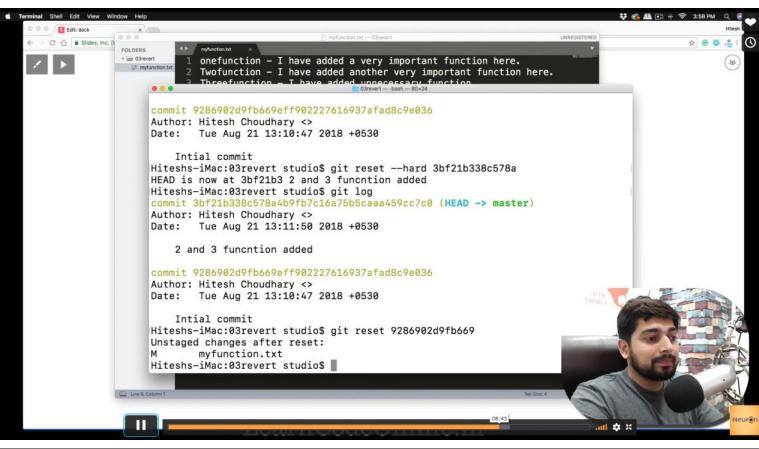


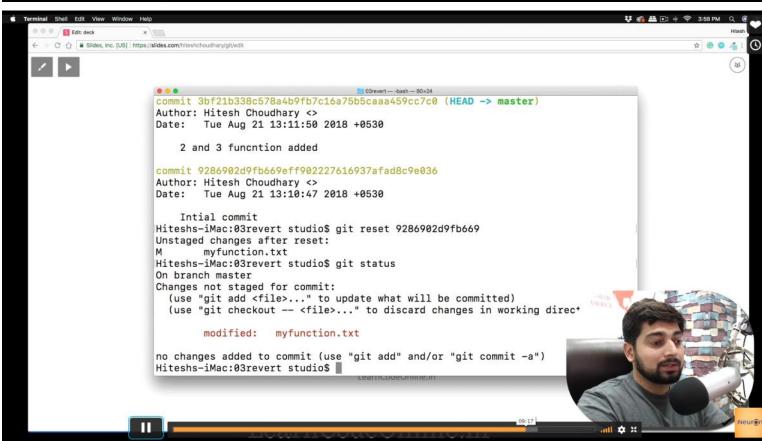


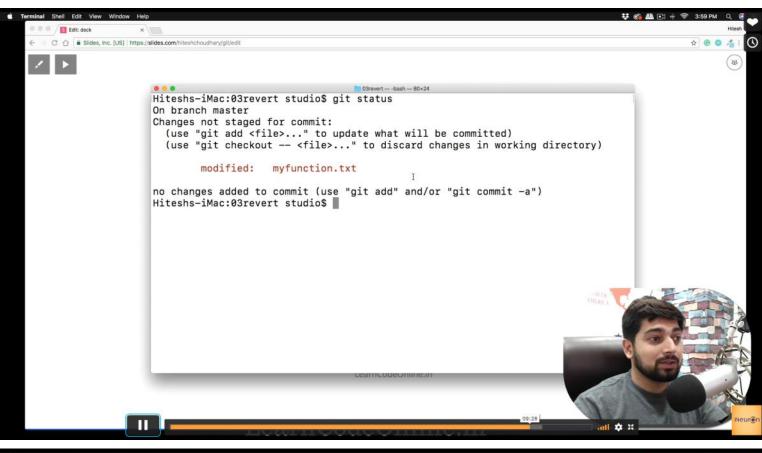


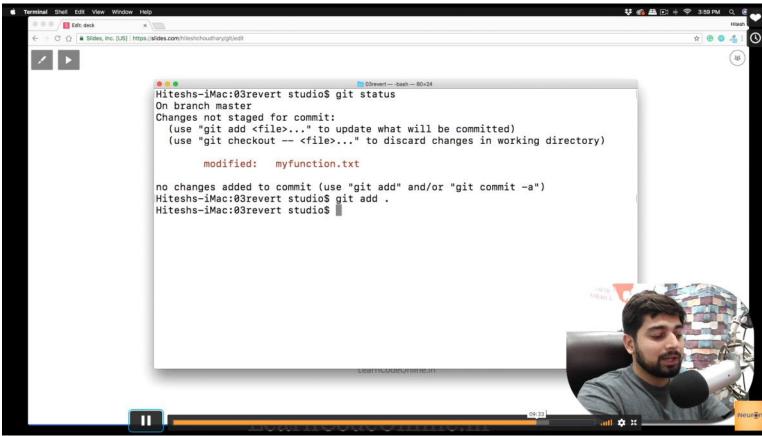


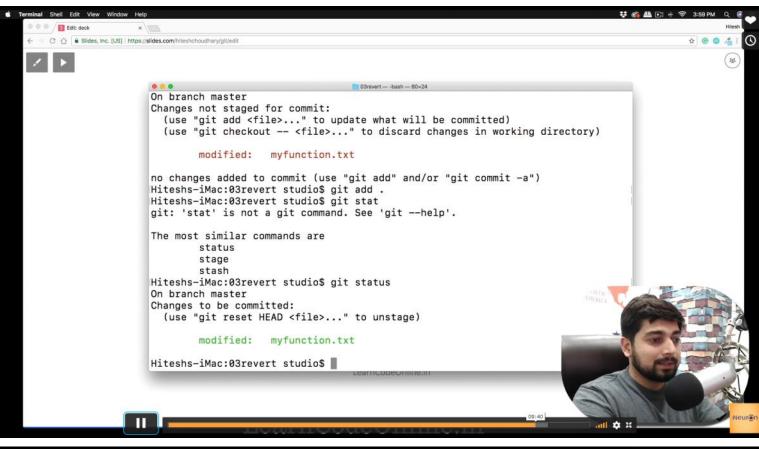


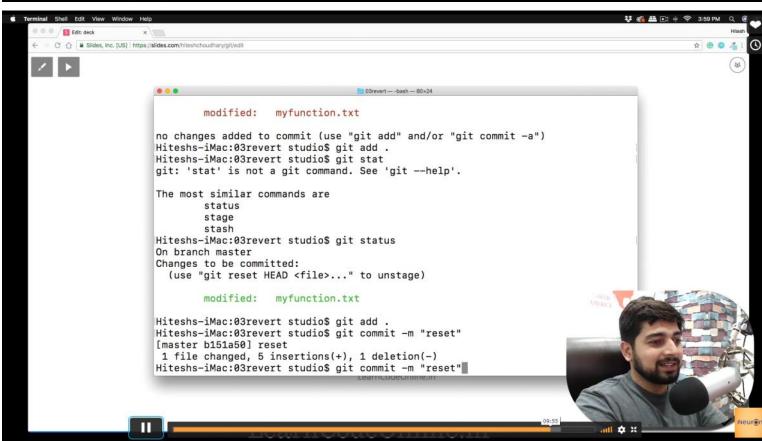


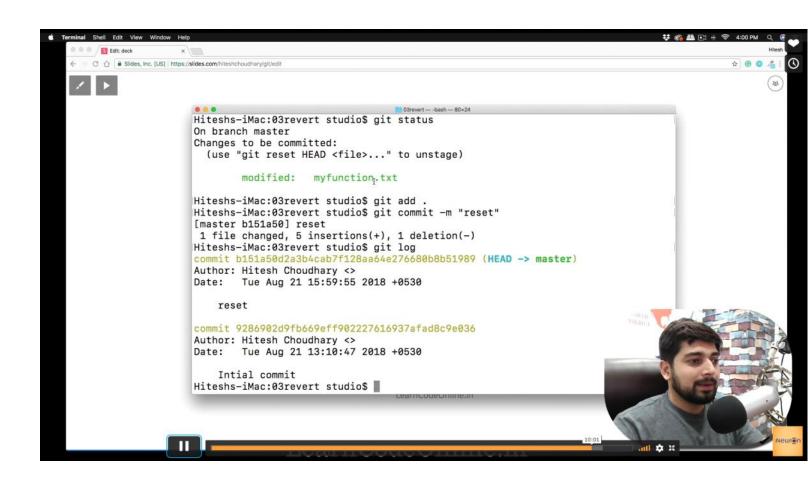












Git merge master

Monday, March 21, 2022 3:44 PM

How to update master changes to the branch

Git checkout master Git pull Git checkout 'branch' Git merge master