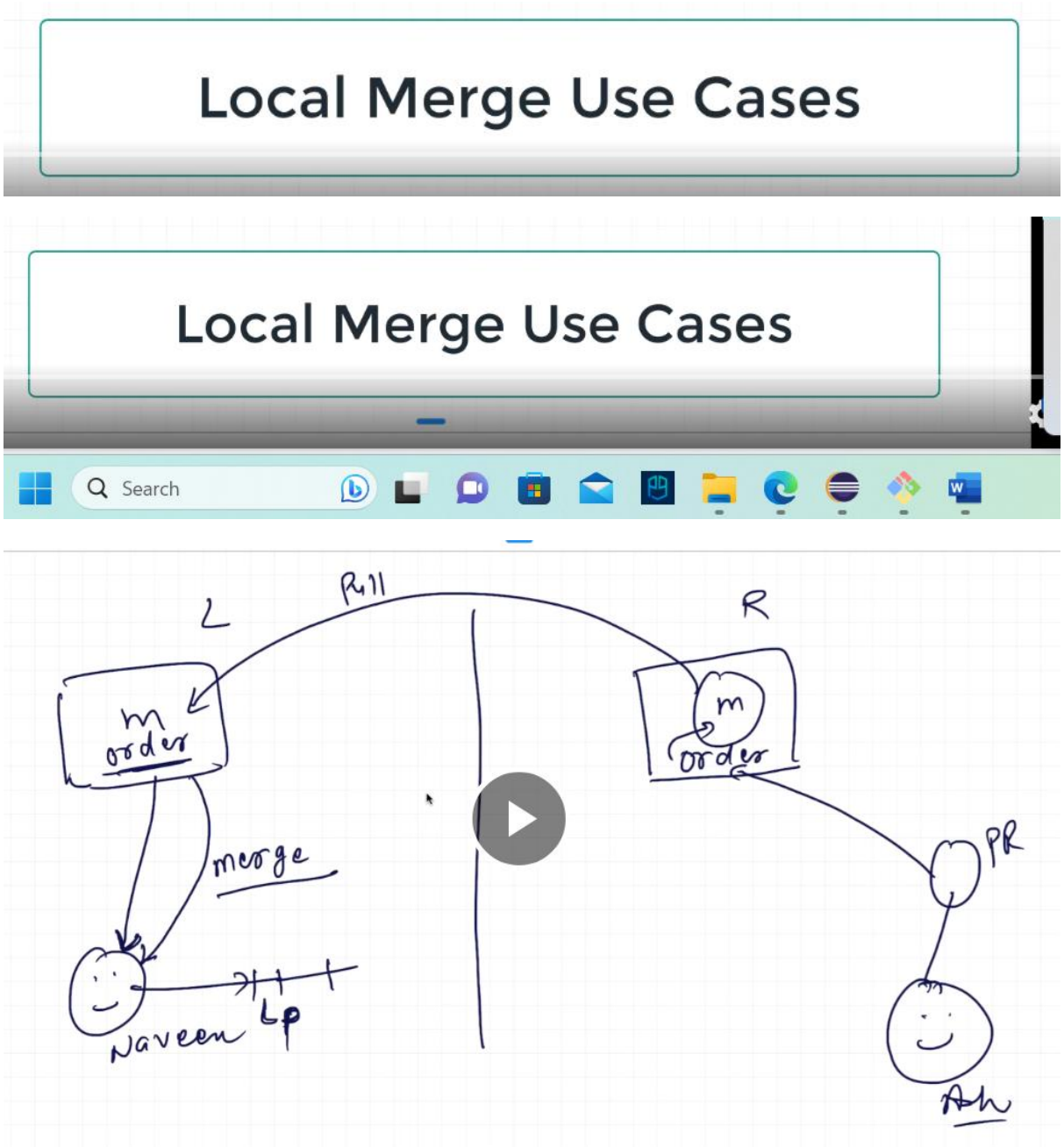


Master branch also known as main branch.

To merge the master with local-

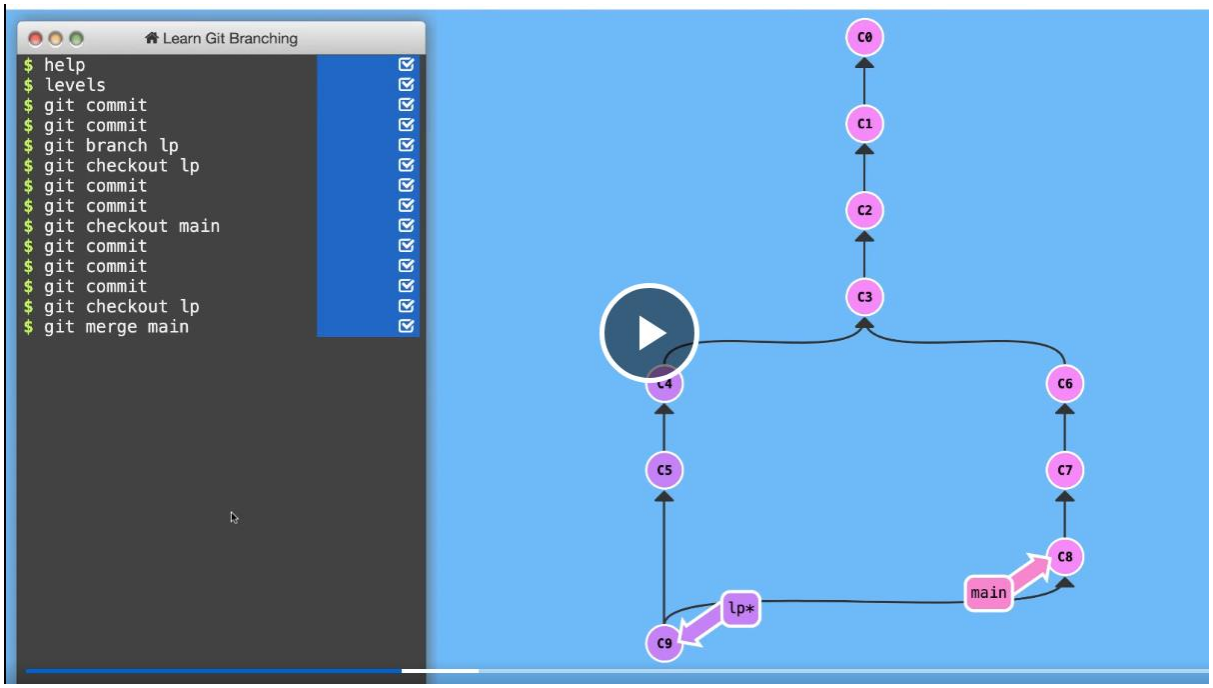
First take pull in local master.

Then checkout to the local branch.

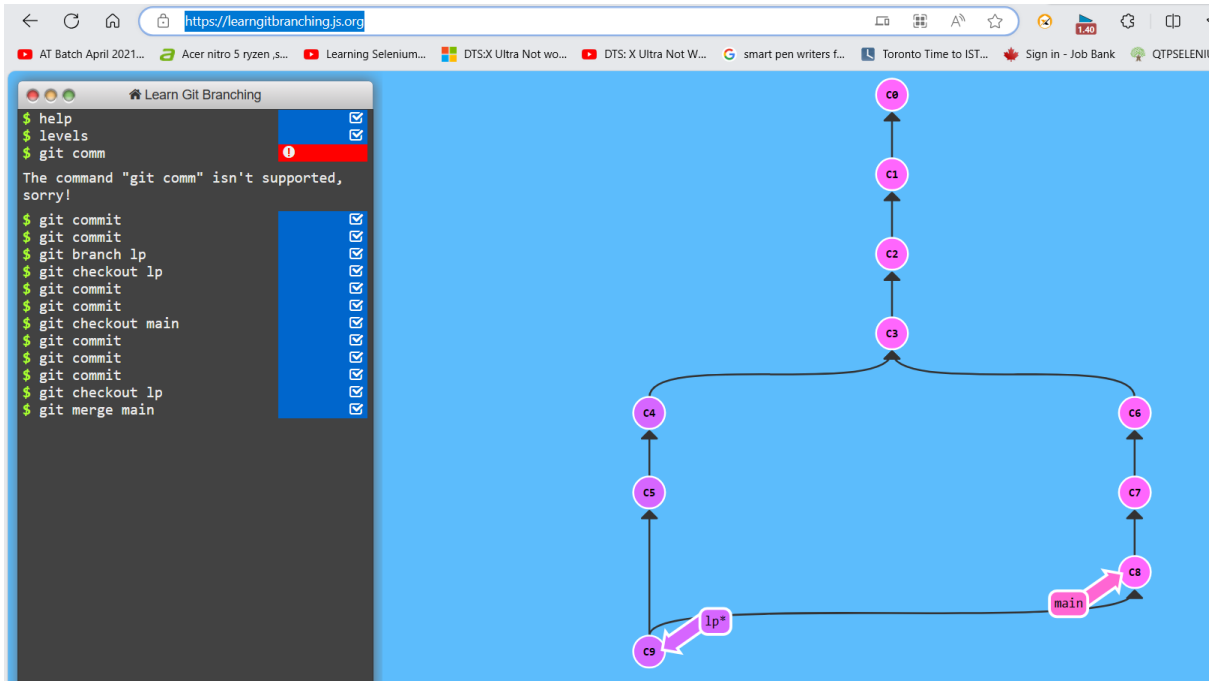
Write git merge.

A new commit with all the commits from all branches will be created in your local repo after merge.

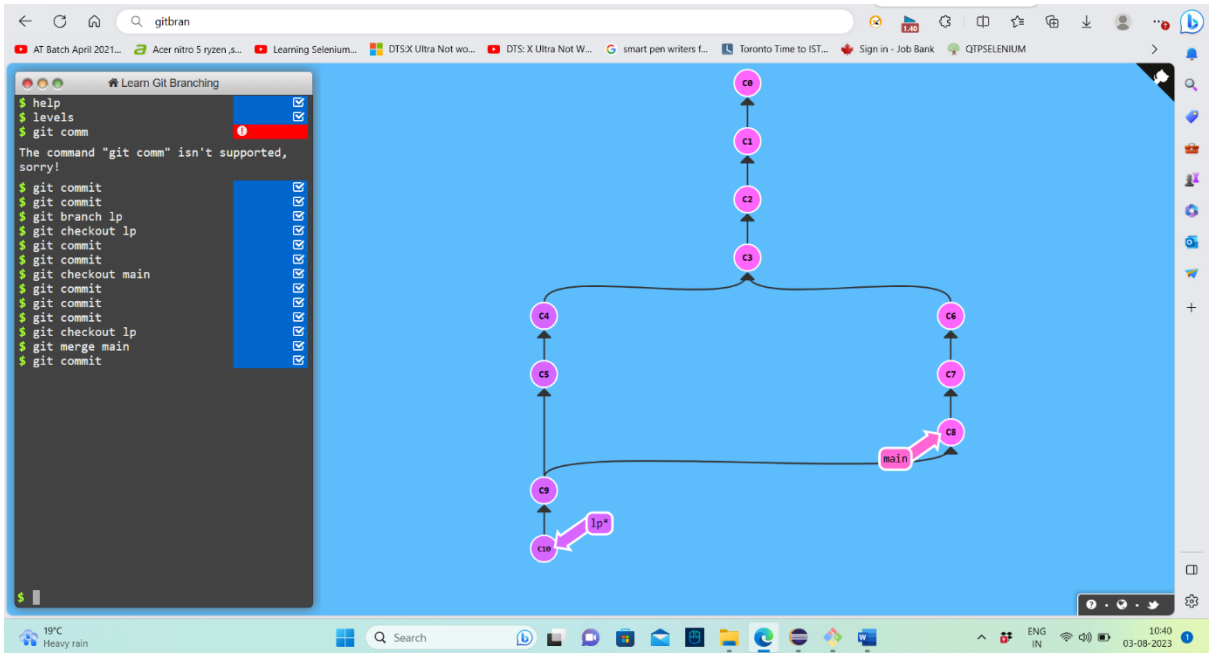
Local merge in graphical fashion-

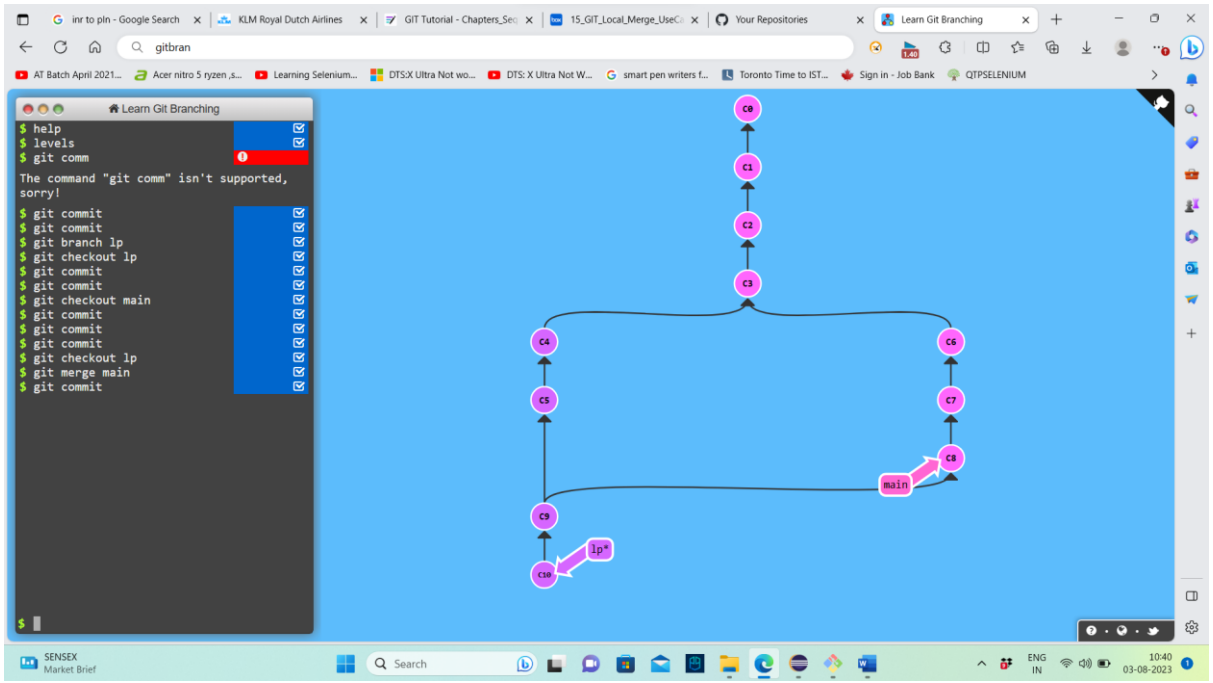


[Learn Git Branching](https://learngitbranching.js.org) – this is the website to understand local merge.



This is the thing we need to do practically using git-





Git branch-

```
  cart
* master
  naveen
(END)
```

Lets update the cart branch with local master-

```
→  GitHubPractice git:(master) git checkout cart
Switched to branch 'cart'
→  GitHubPractice git:(cart) git branch
→  GitHubPractice git:(cart)
```

Git branch will point to cart.

```
* cart
  master
  naveen
(END)
```

Merge-

```
→  GitHubPractice git:(cart) git merge master
```

```
adding all master code
Merge branch 'master' into cart
# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
#
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.
~
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~
:wq!
```
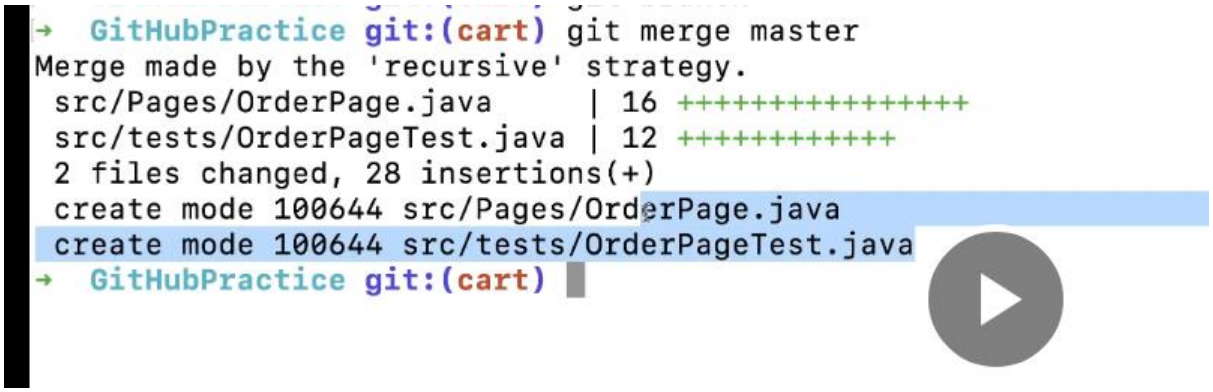
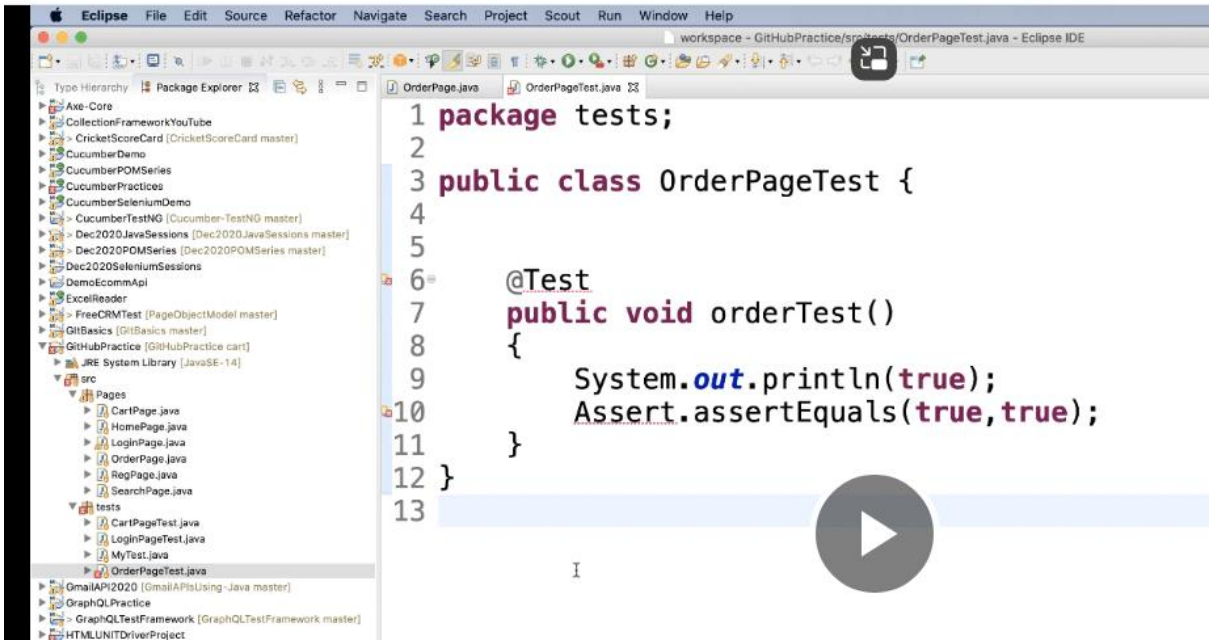
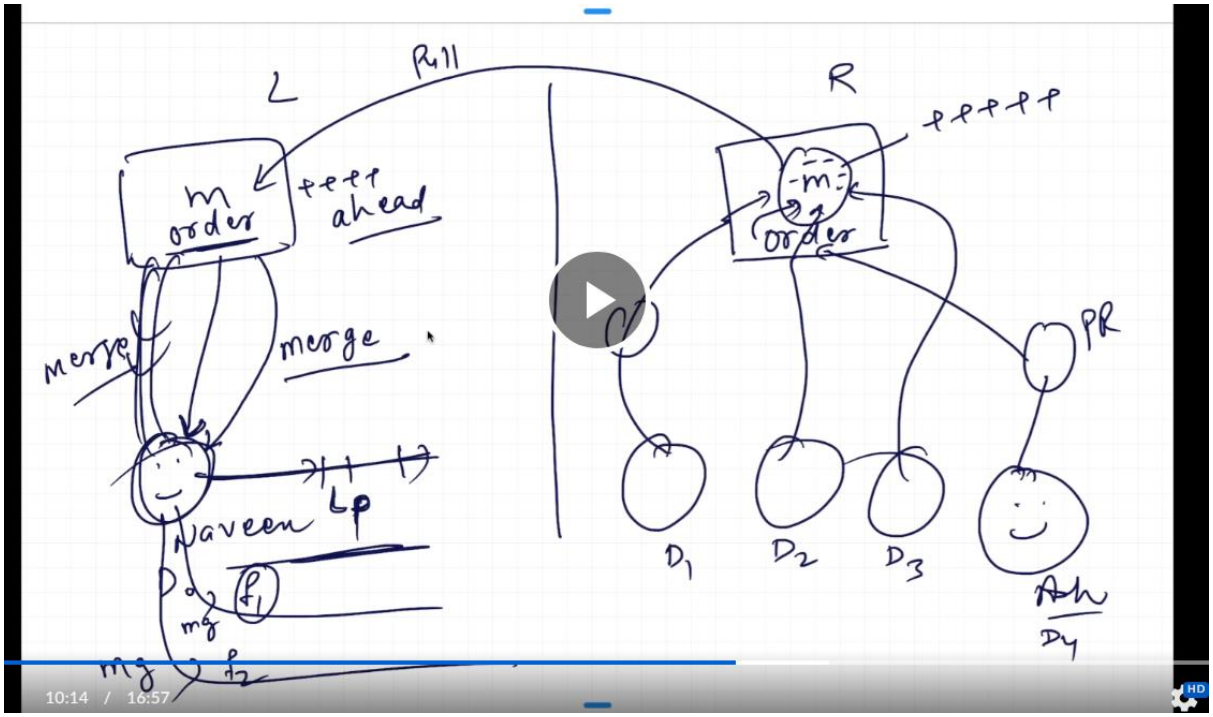

Write reason for merging, how to do it, Go to insert mode by pressing “I” and then adding commit message and then “escape :wq!”



Refresh project.

Code updated in cart branch also.

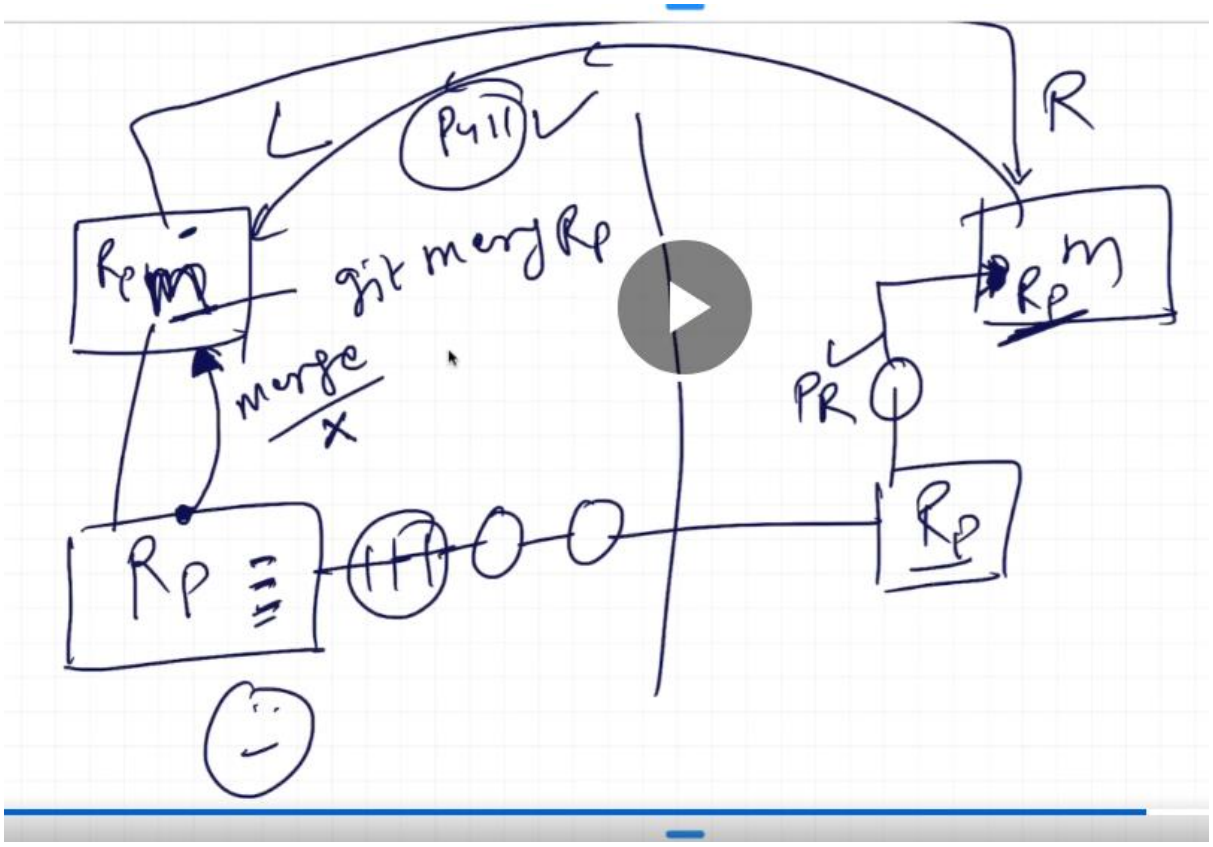




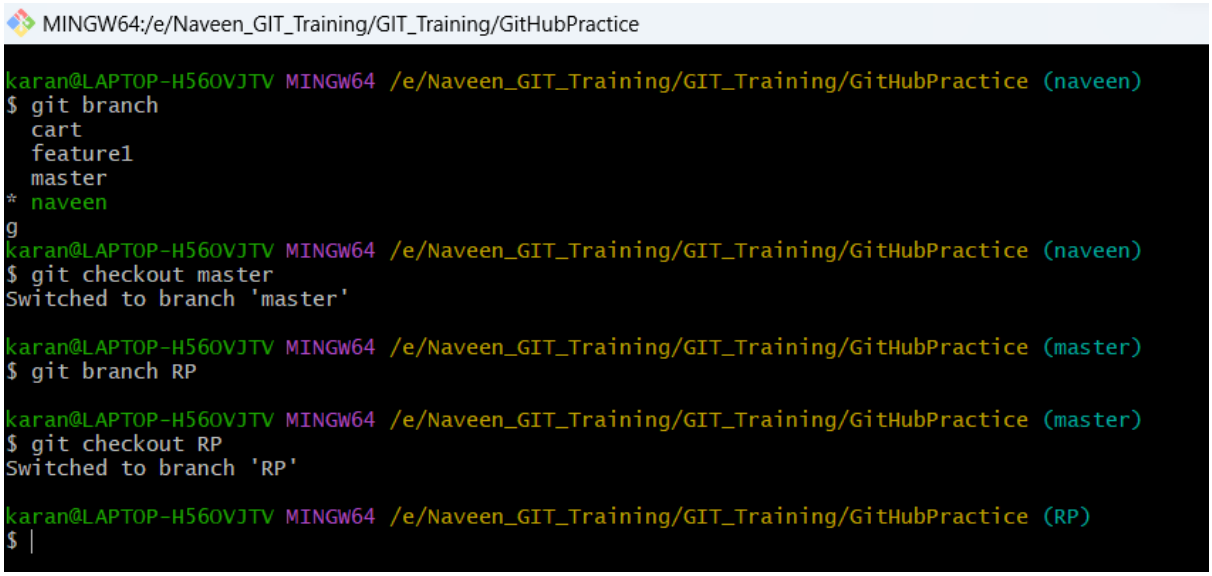
When only one person is working-

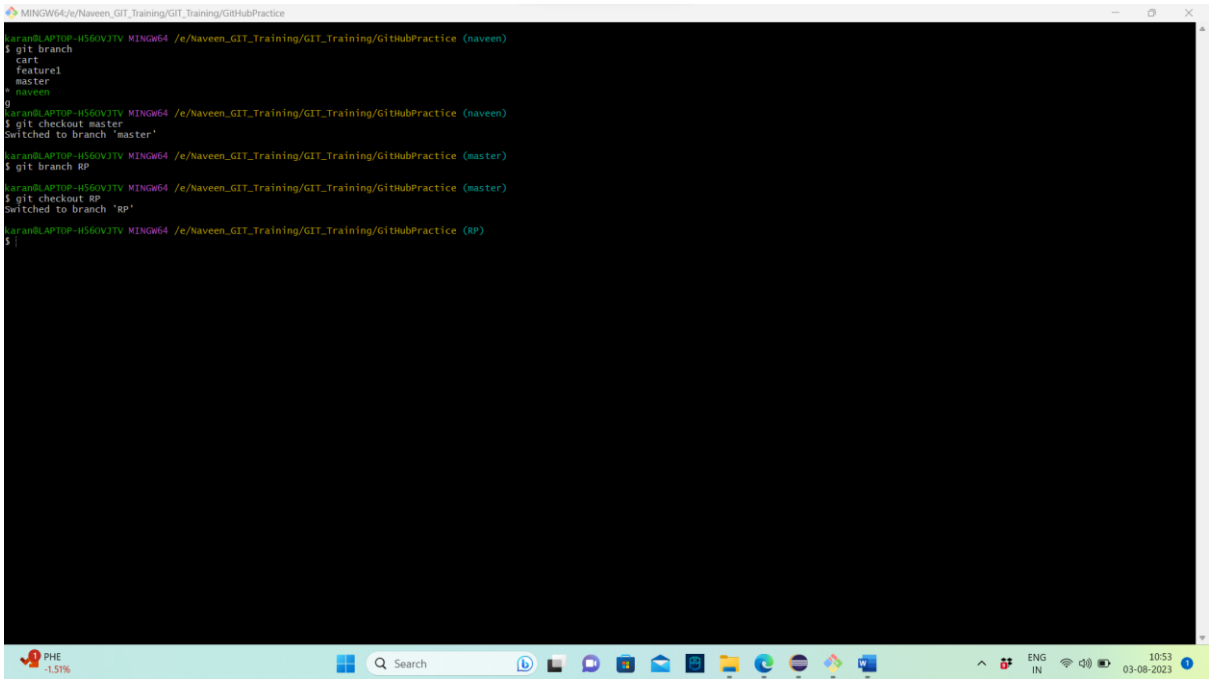
Reverse merging not good practice, because in local branches, pr cannot be raised.

If code is buggy and you push to remote master, then gone.

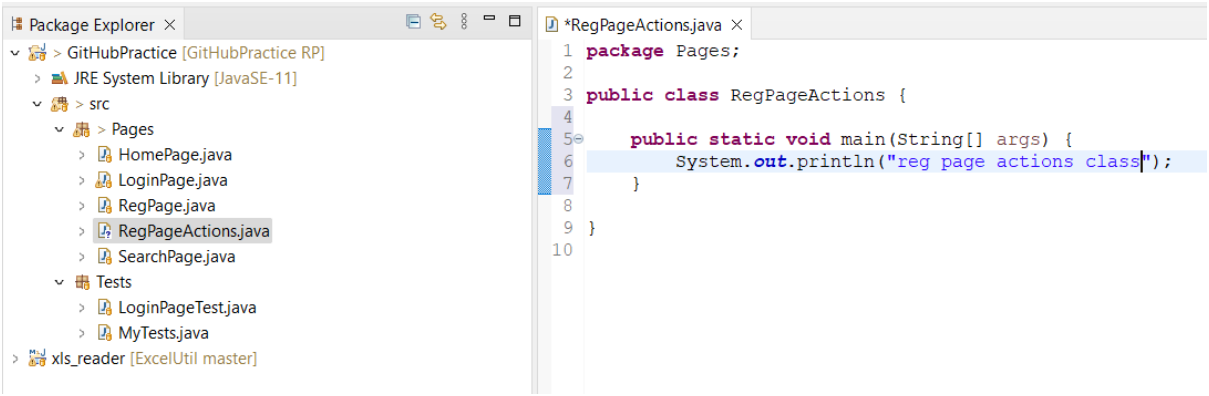


lets see this thing in action-





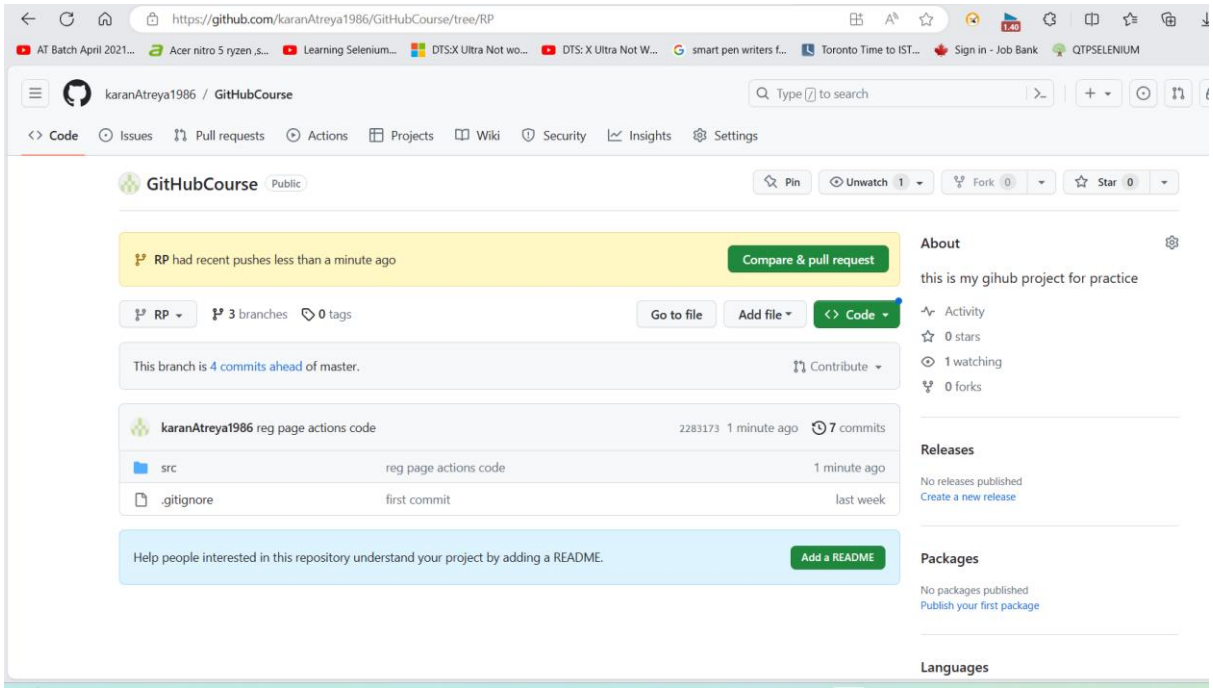
New code added in rp branch-



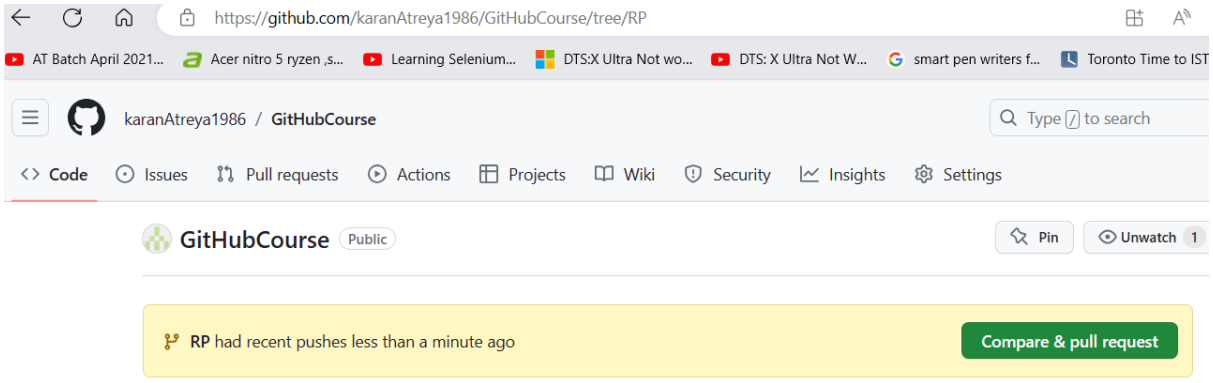
Add, commit, and push-

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ git status
On branch RP
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/Pages/RegPageActions.java

nothing added to commit but untracked files present (use "git add" to track)

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ git commit -m "reg page actions code"
[RP 2283173] reg page actions code
 1 file changed, 5 insertions(+)
 create mode 100644 src/Pages/RegPageActions.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ git push origin RP
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 481 bytes | 481.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'RP' on GitHub by visiting:
remote:      https://github.com/karanAtreya1986/GitHubCourse/pull/new/RP
remote:
To https://github.com/karanAtreya1986/GitHubCourse.git
 * [new branch]      RP -> RP

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$
```

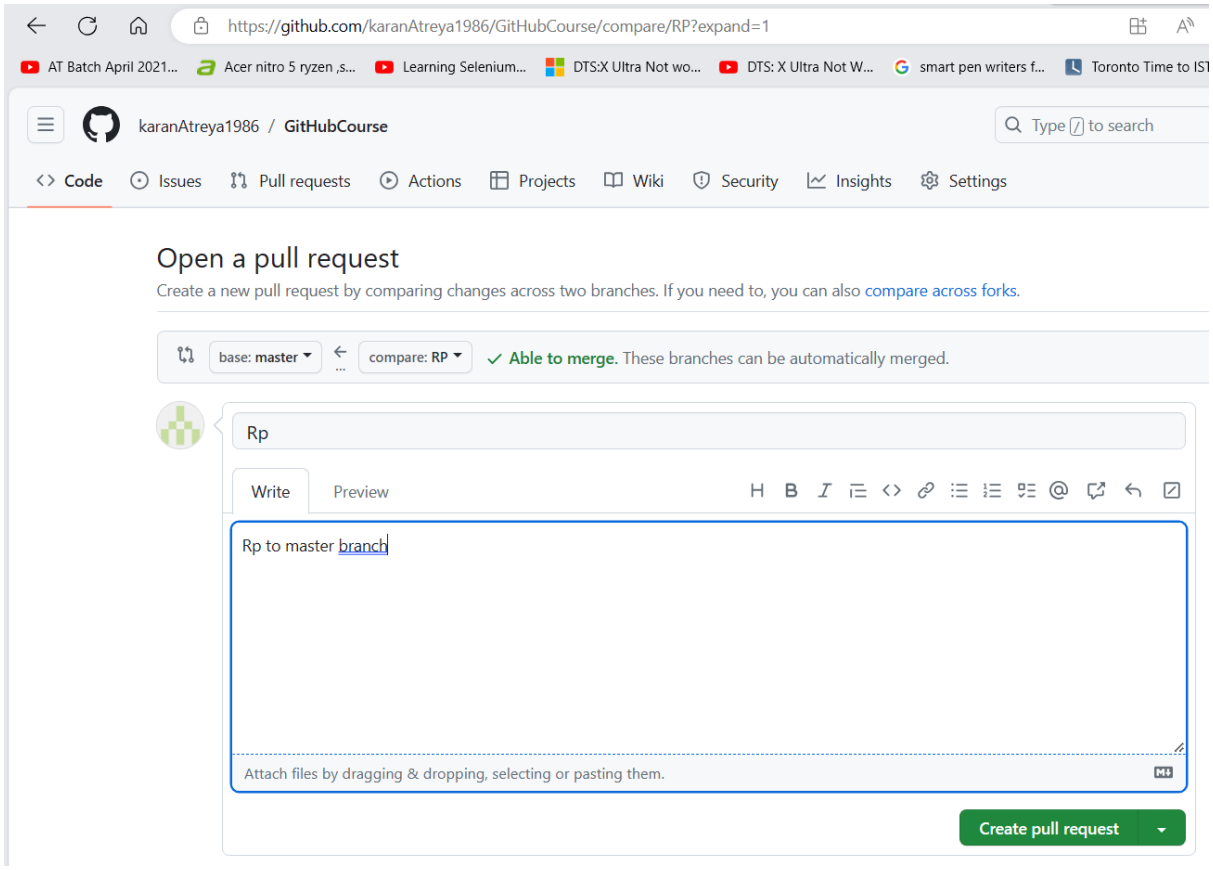
Refresh and code present-



Click compare and pull request-

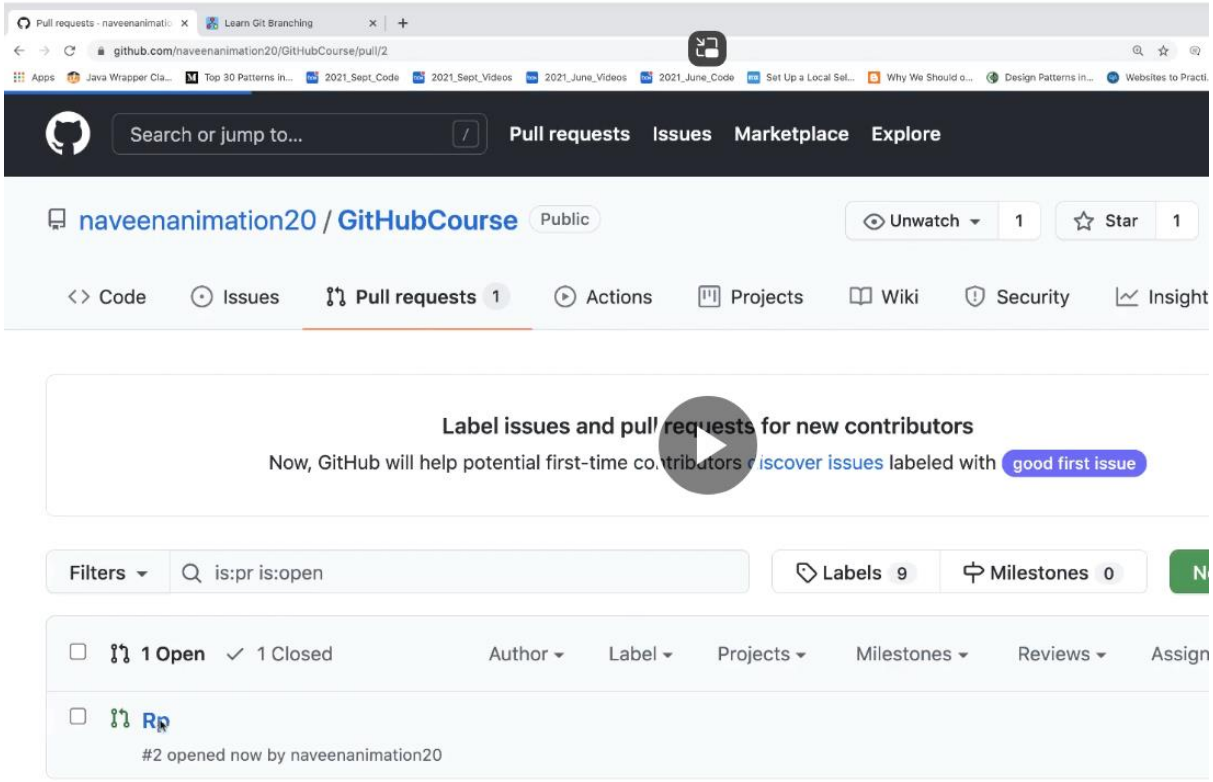


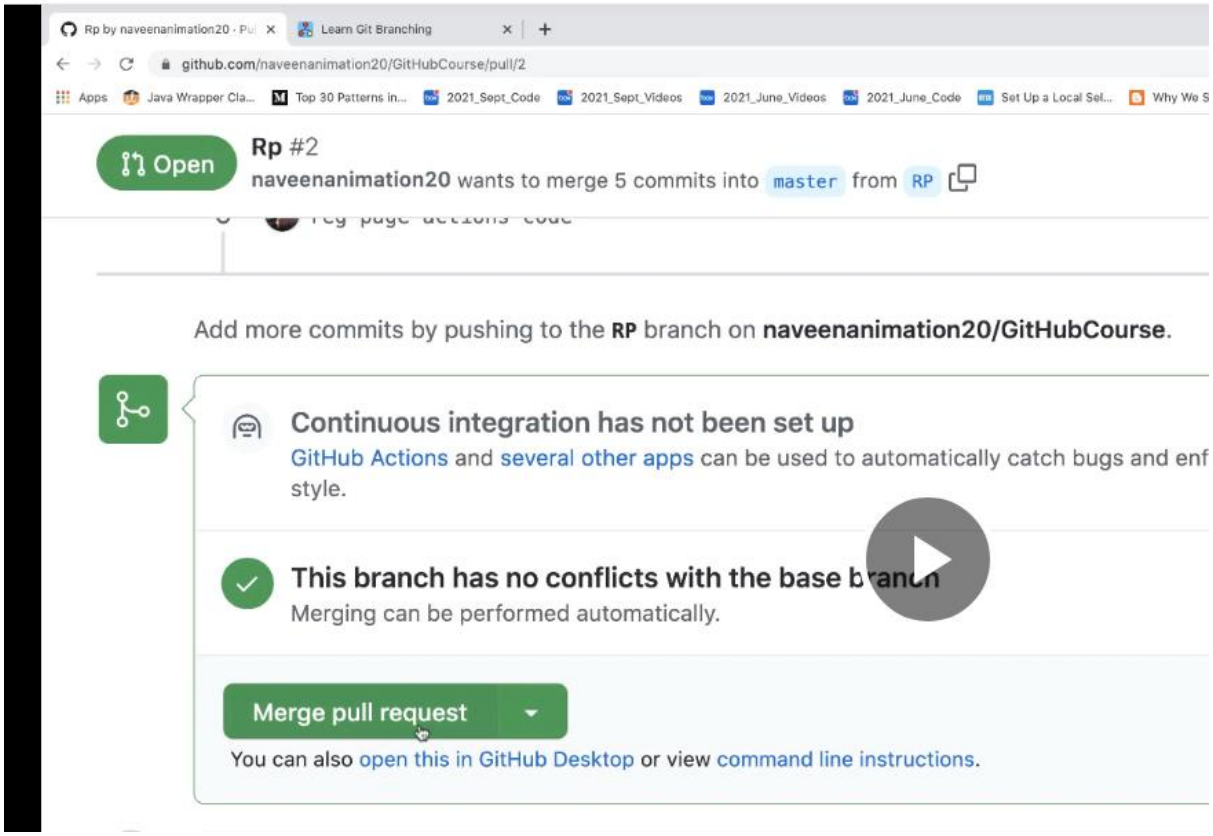
Create pull request-



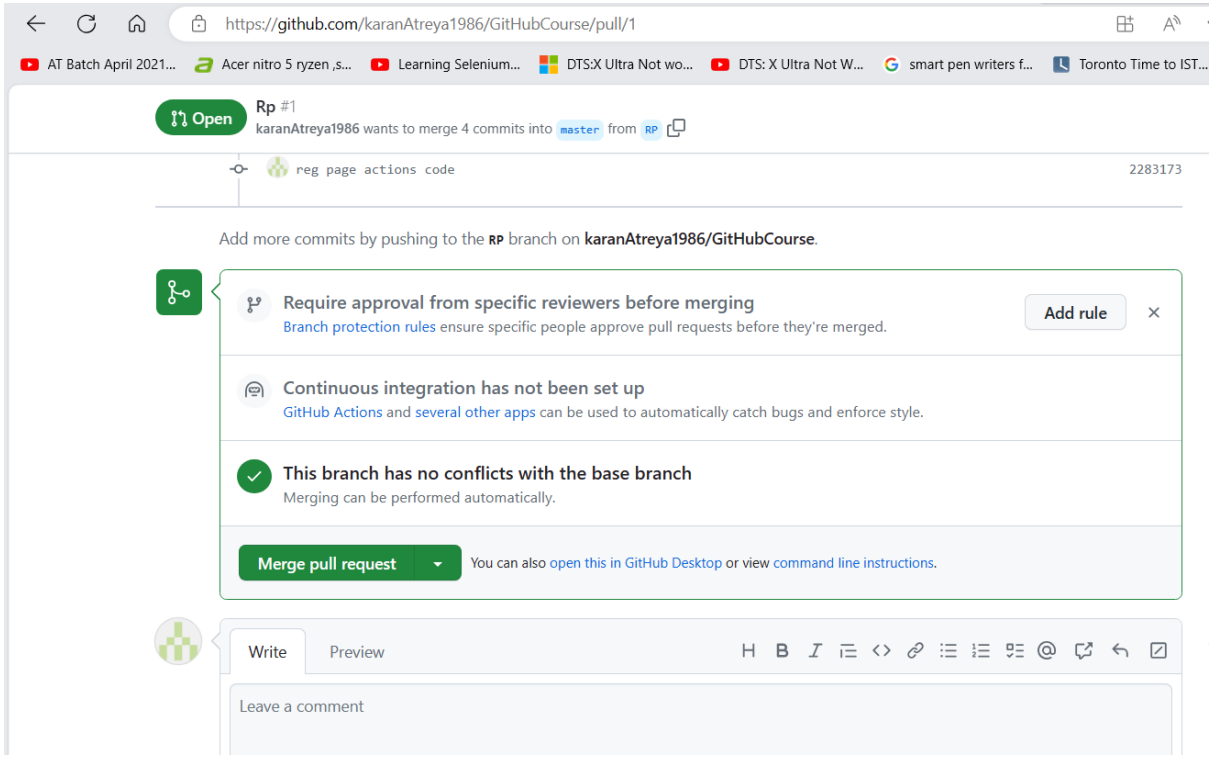
Click merge-

We can even click on merge after clicking on pull request link. Then click on the PR name.

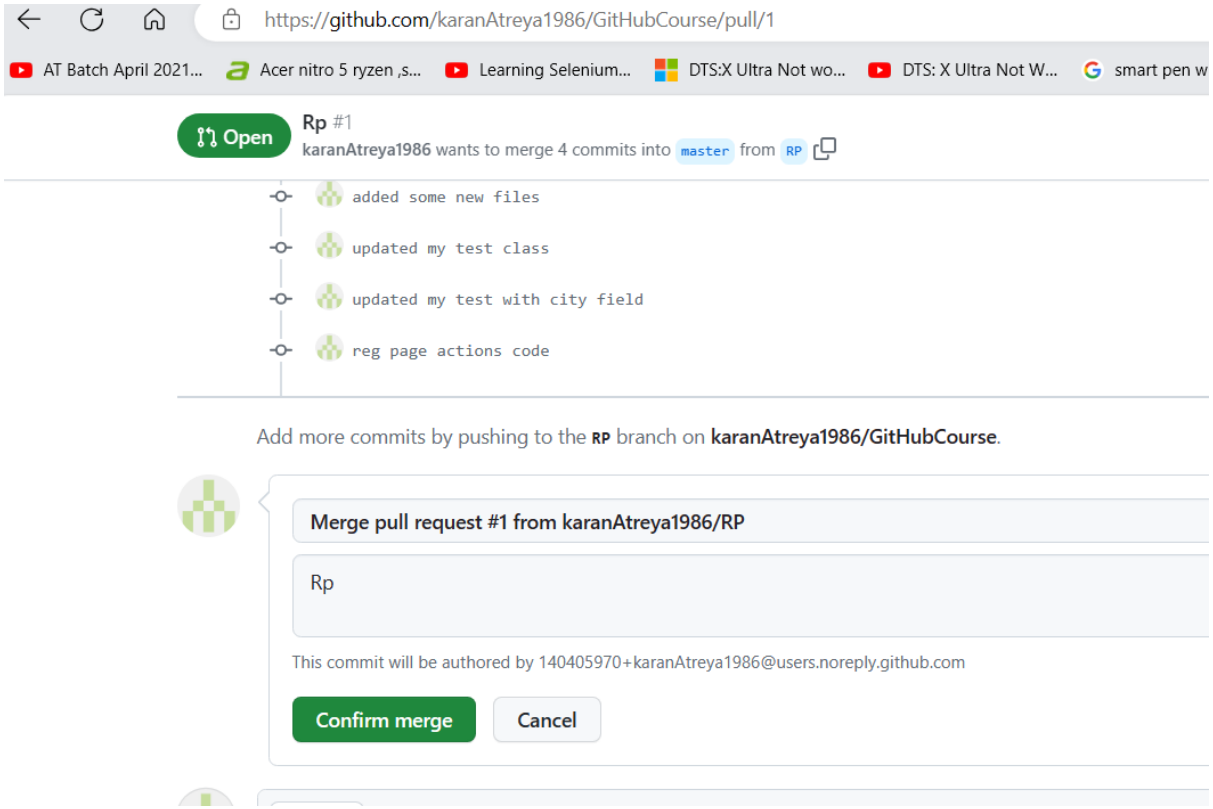




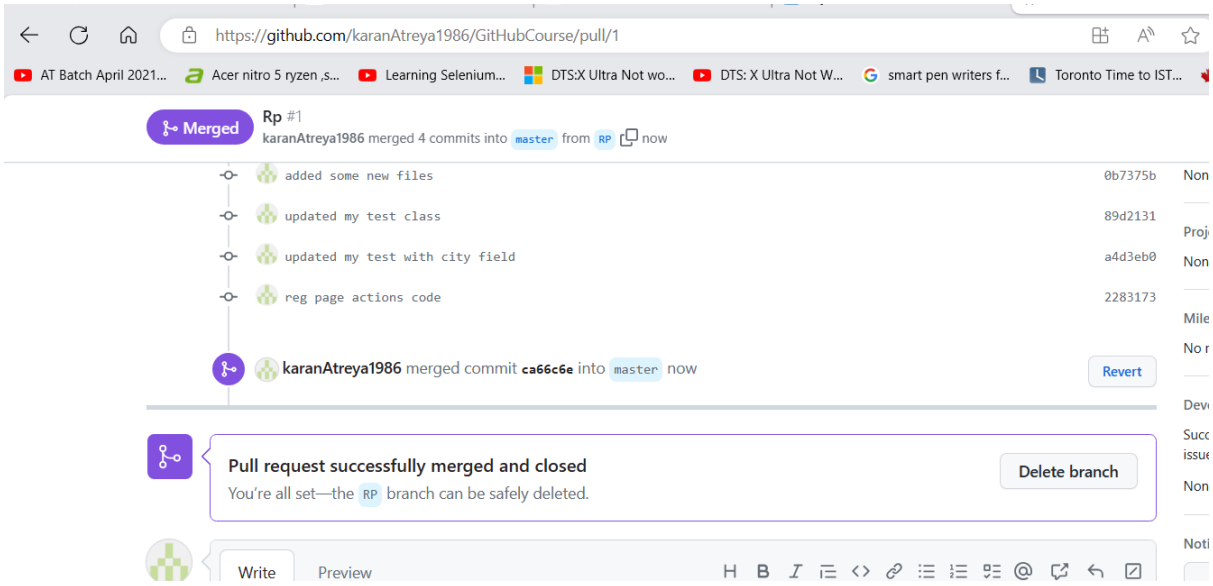
Or other way is when we created pull request and scrolled downwards we get this option to merge-



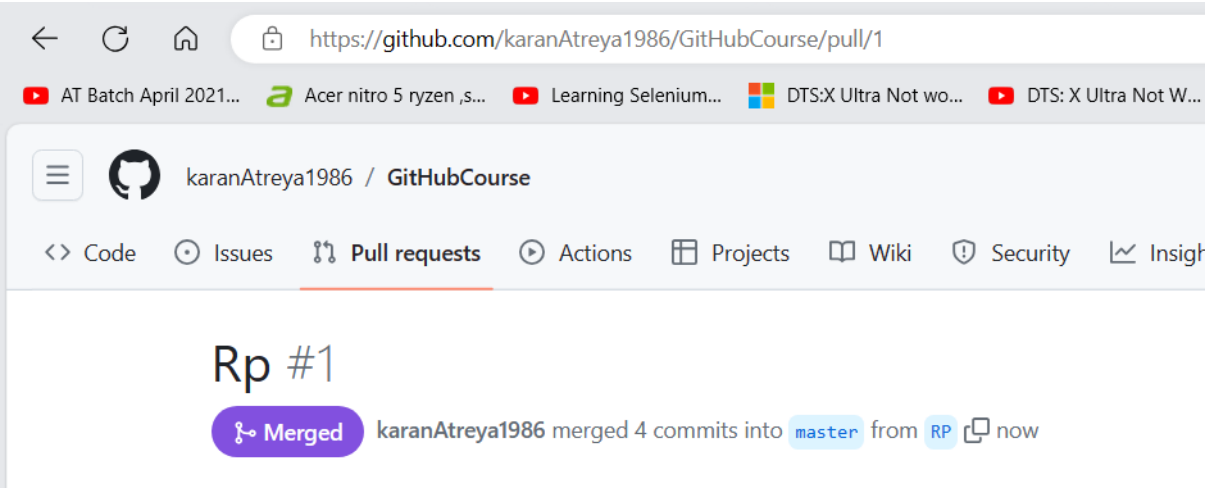
Confirm merge-



Merge done-



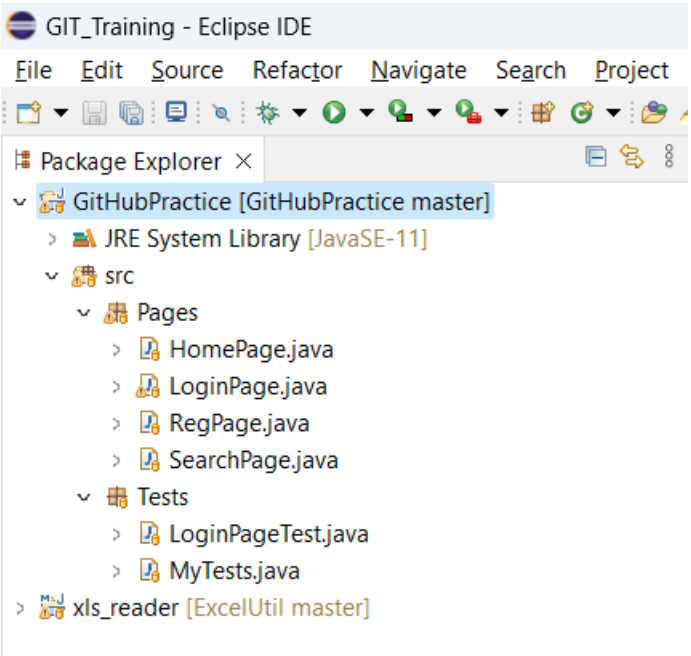
It says merged from rp to master-



Lets take latest pull-

Checkout to master first.

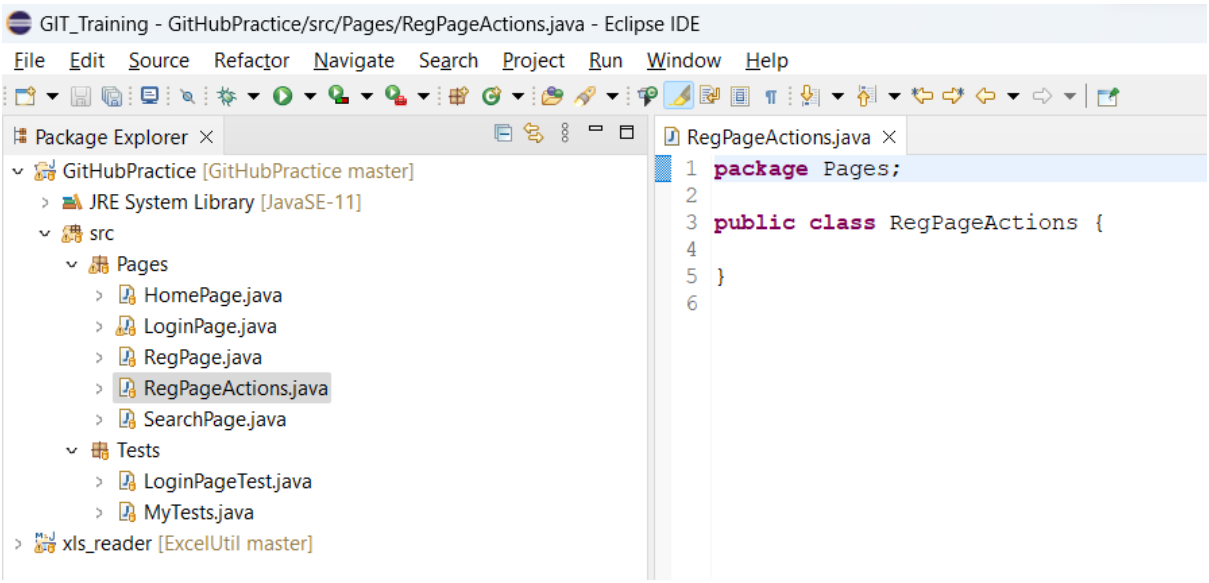
No reg page actions class in master –



Git pull-

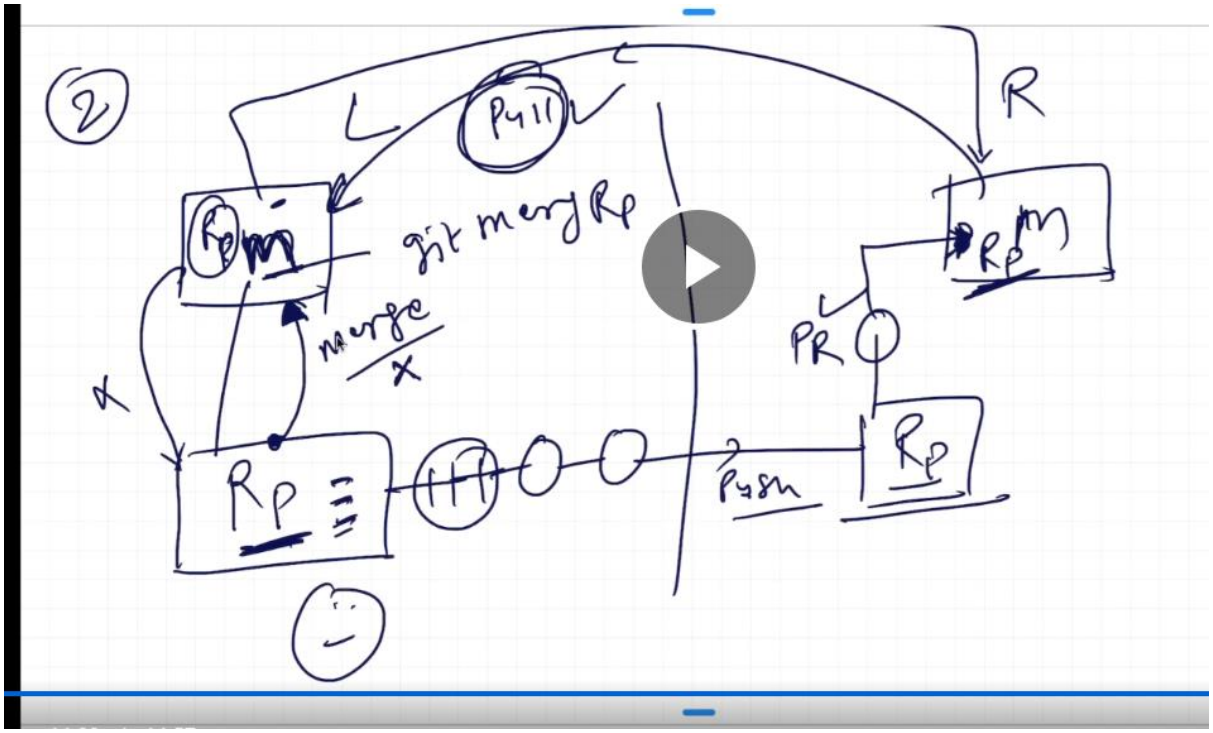
```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git pull origin master
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 619 bytes | 41.00 KiB/s, done.
From https://github.com/karanAtreya1986/GitHubCourse
 * branch            master     -> FETCH_HEAD
   87e6219..ca66c6e  master     -> origin/master
Updating a4d3eb0..ca66c6e
Fast-forward
 src/Pages/RegPageActions.java | 5 +++++
 1 file changed, 5 insertions(+)
 create mode 100644 src/Pages/RegPageActions.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

Refresh ide and it has come-

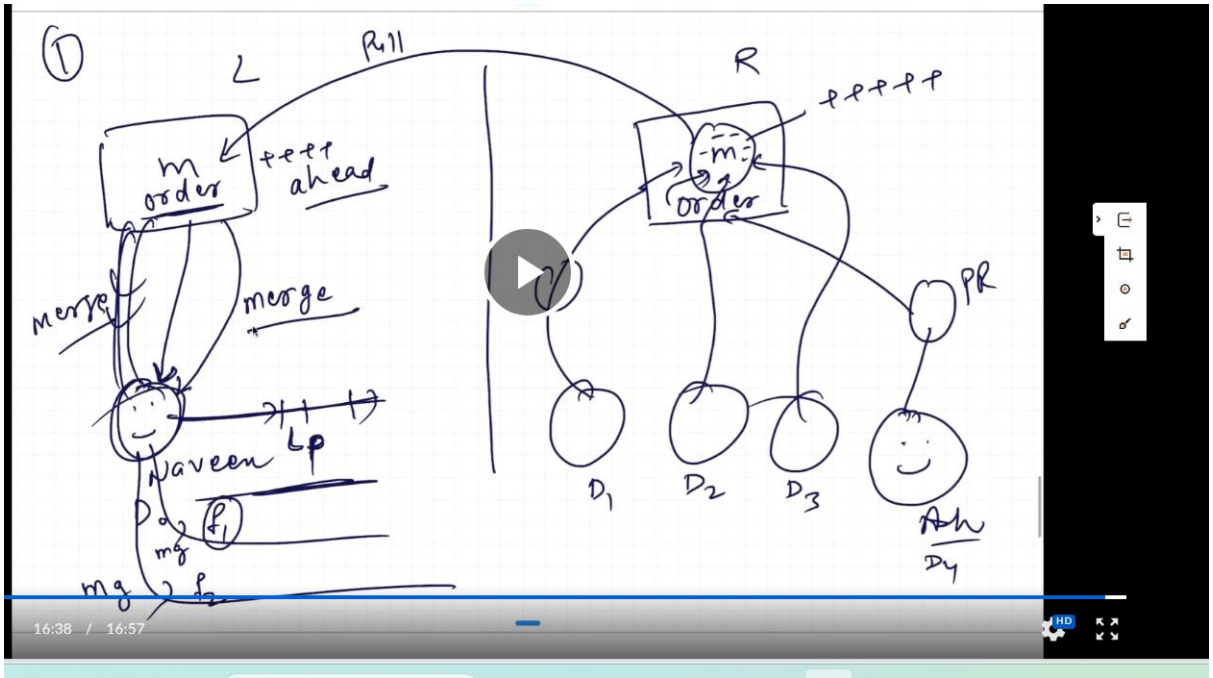


Second use case of merge is when only person in team, what is the practice to follow-

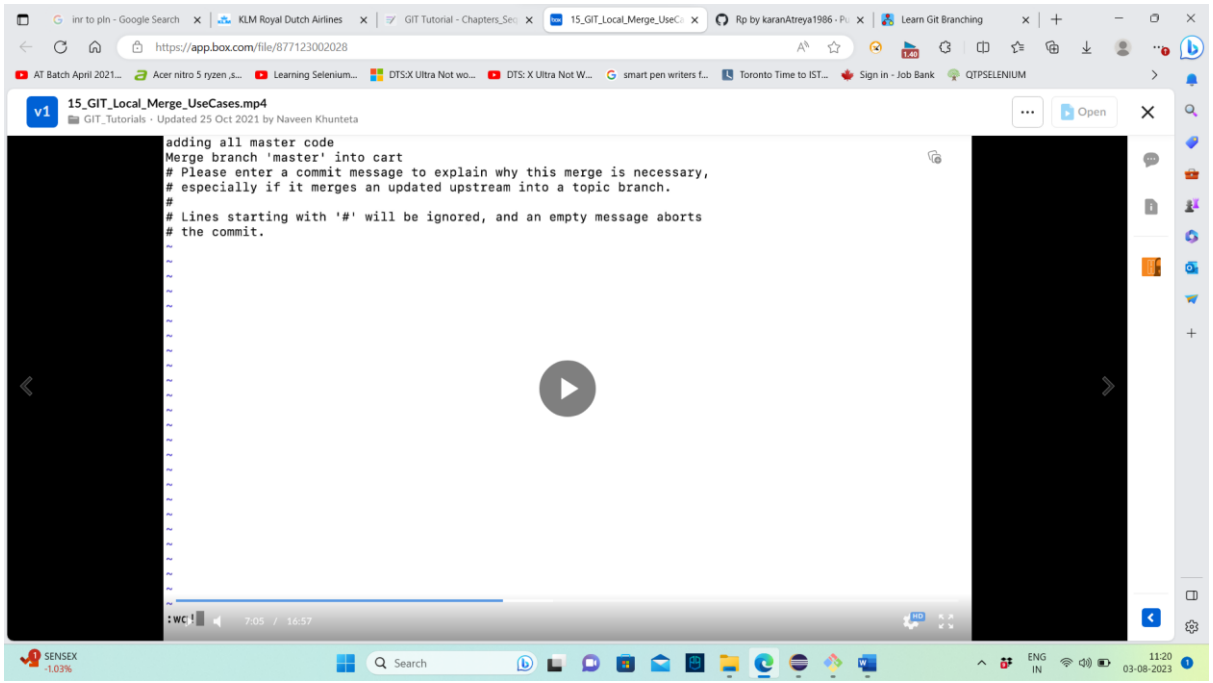
We don't have to merge from local master to local repo because only one person is working and the latest code is already pushed to remote master.



First use case is master to feature branch with multiple people working in team-



Another ocd –


15_GIT_Local_Merge_UseCases.mp4
GIT_Tutorials · Updated 25 Oct 2021 by Naveen Khunteta
Open
adding all master code
Merge branch 'master' into cart
Please enter a commit message to explain why this merge is necessary,
especially if it merges an updated upstream into a topic branch.
#
Lines starting with '#' will be ignored, and an empty message aborts
the commit.
:wq!
7:05 / 16:57
Search