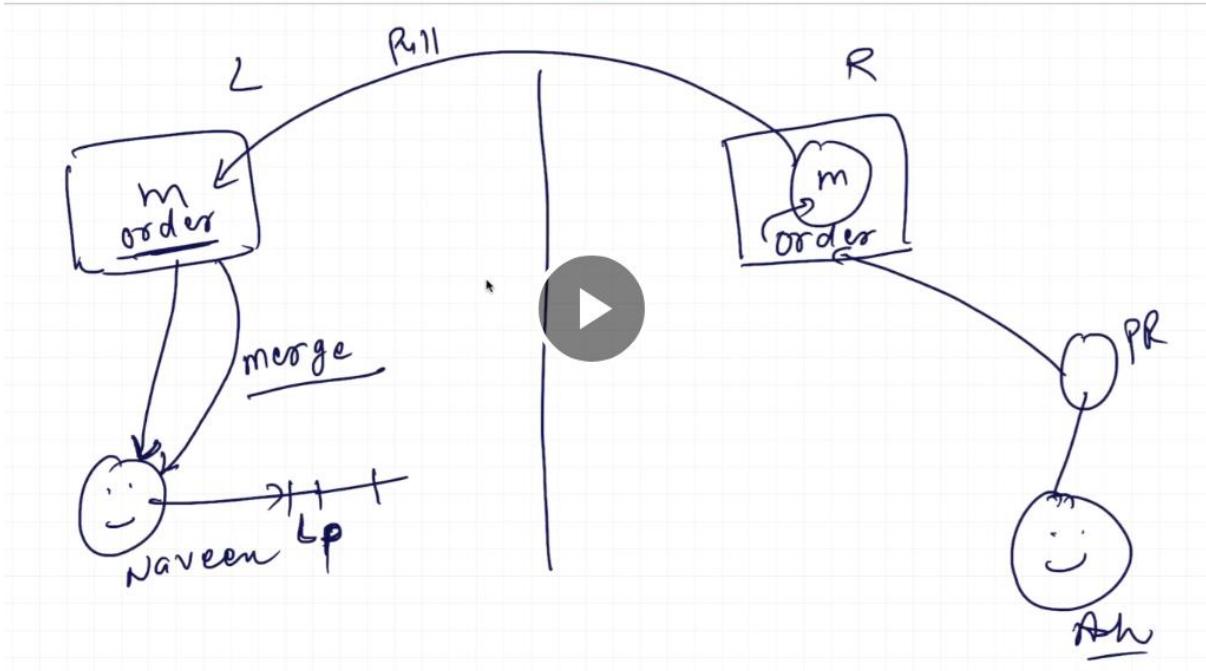


Local Merge Use Cases

Local Merge Use Cases



Master branch also known as main branch.

To merge the master with local-

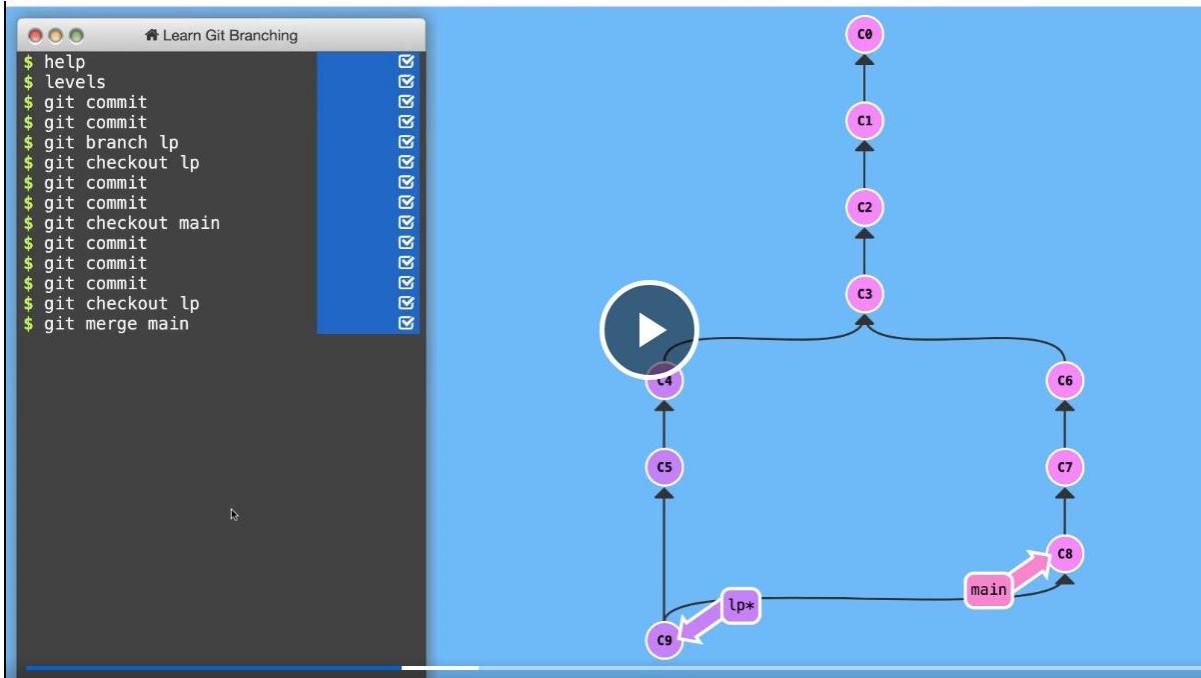
First take pull in local master.

Then checkout to the local branch.

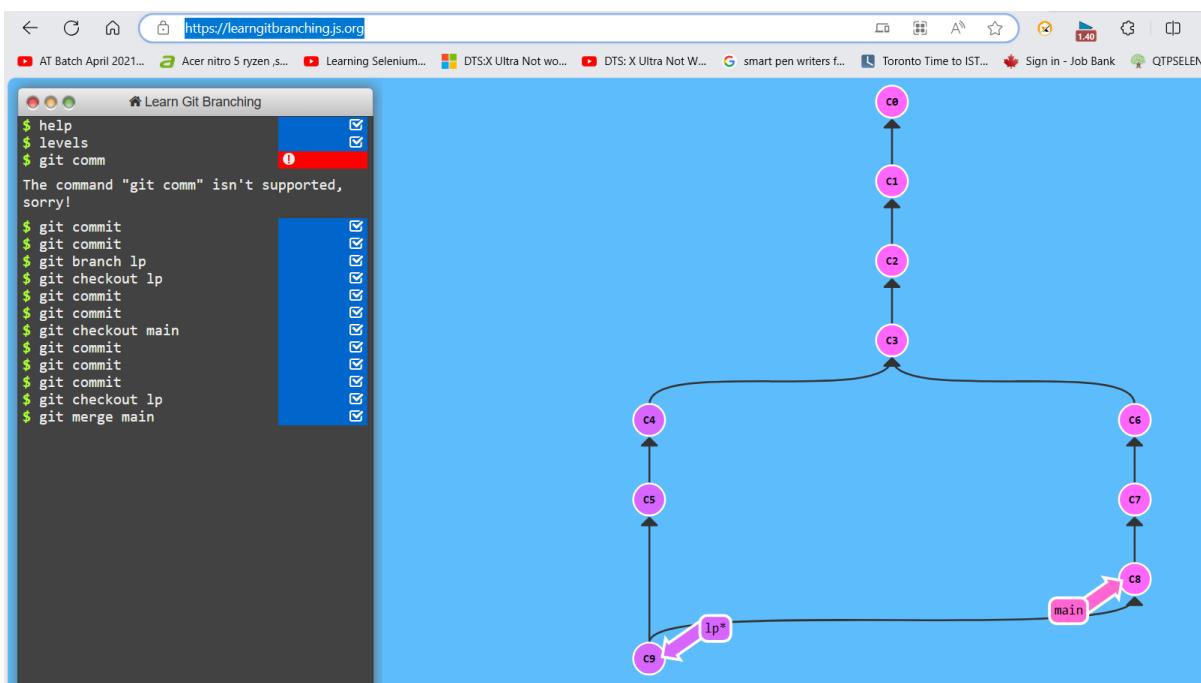
Write git merge.

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

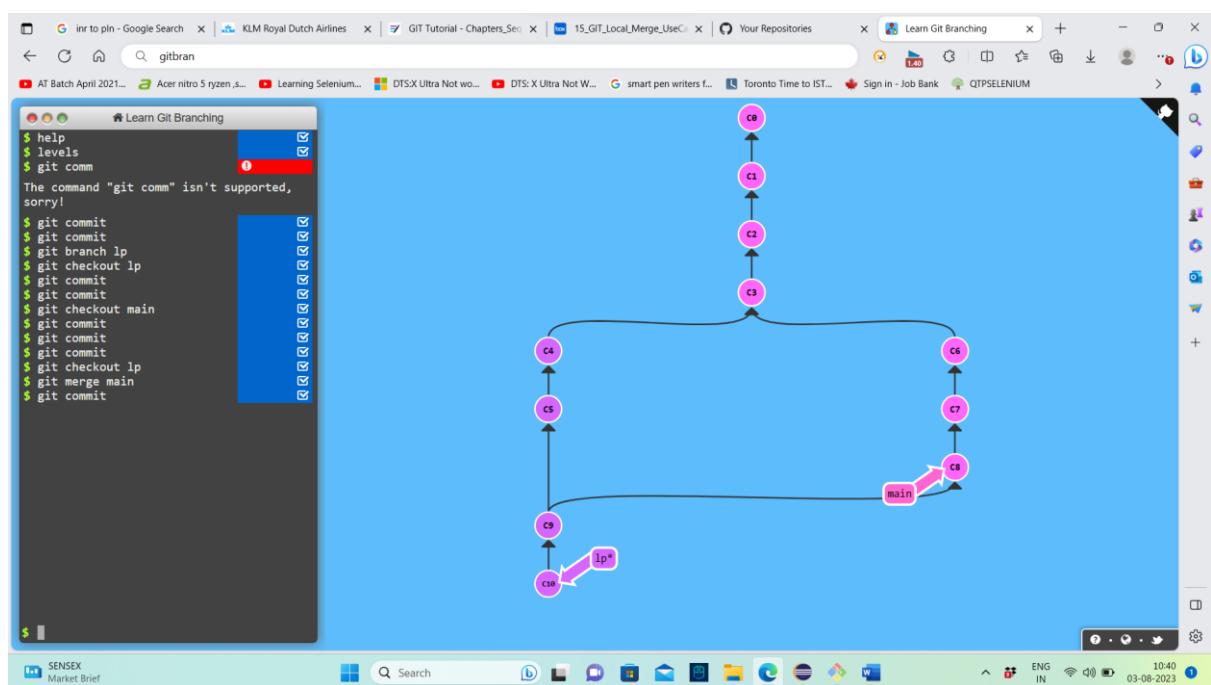
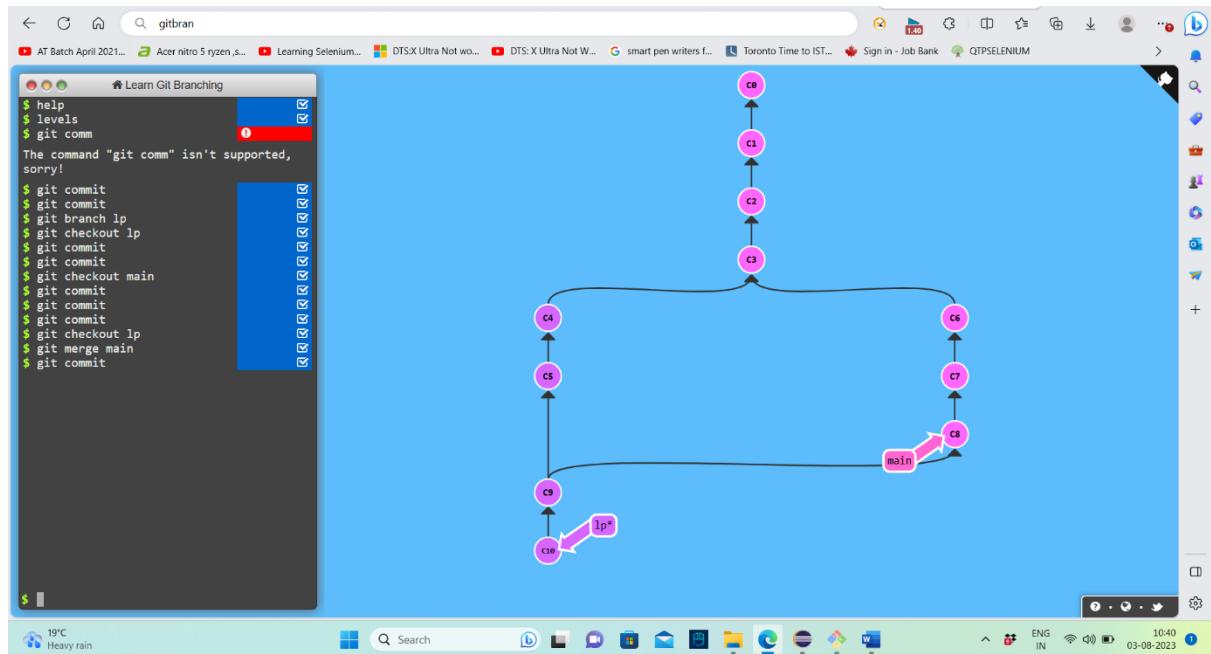
Local merge in graphical fashion-



[Learn Git Branching](#) – 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 branch
→ 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-

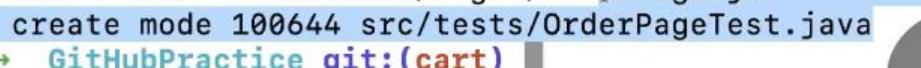
GitHubPractice git:(cart) git merge master

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

```

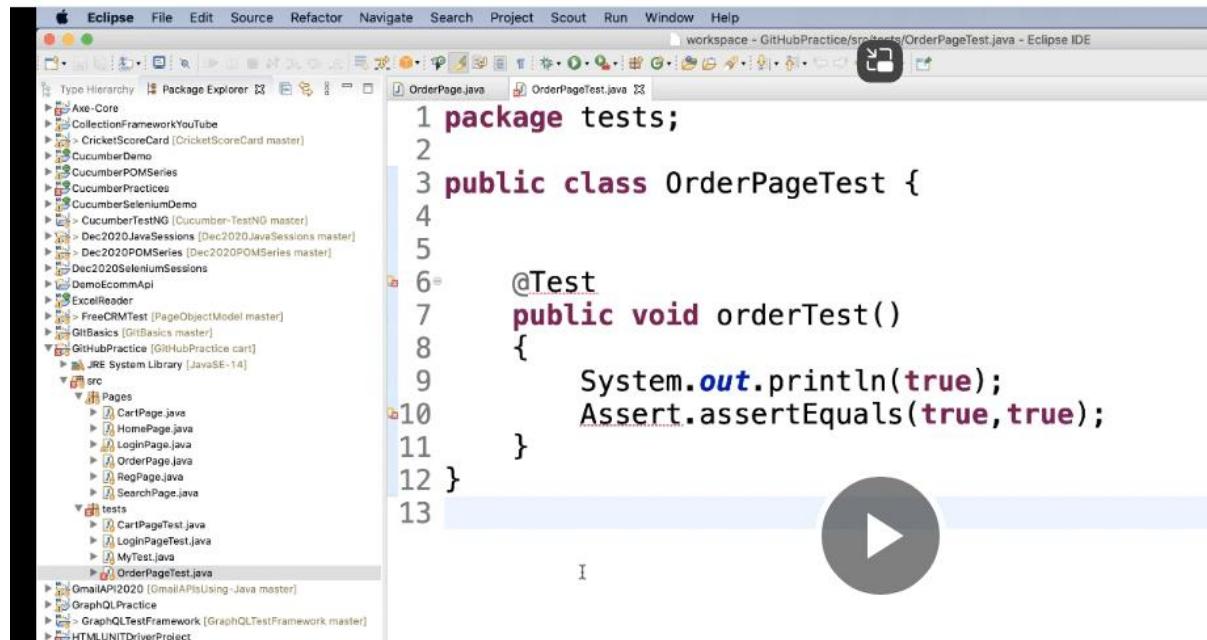
→ GitHubPractice git:(cart) git merge master
Merge made by the 'recursive' strategy.
src/Pages/OrderPage.java      | 16 ++++++
src/tests/OrderPageTest.java | 12 ++++++
2 files changed, 28 insertions(+)
create mode 100644 src/Pages/OrderPage.java
create mode 100644 src/tests/OrderPageTest.java
→ GitHubPractice git:(cart)

```




Refresh project.

Code updated in cart branch also.

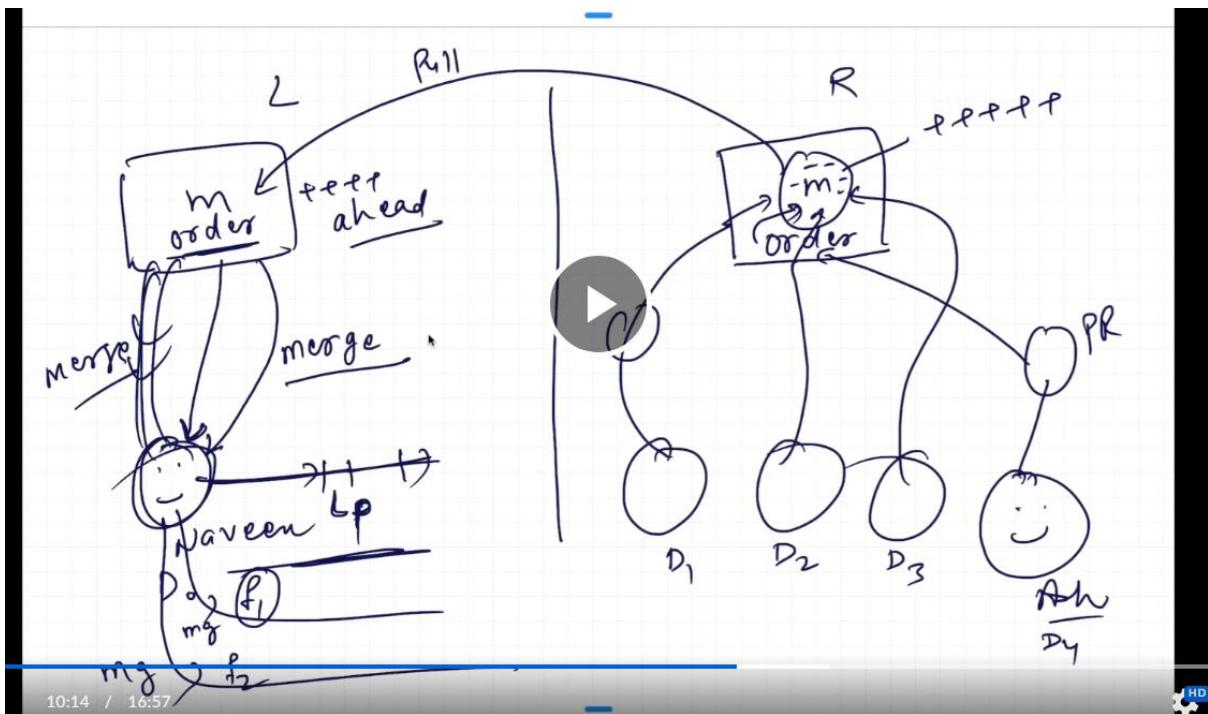


```

1 package tests;
2
3 public class OrderPageTest {
4
5
6     @Test
7     public void orderTest()
8     {
9         System.out.println(true);
10        Assert.assertEquals(true, true);
11    }
12 }
13

```

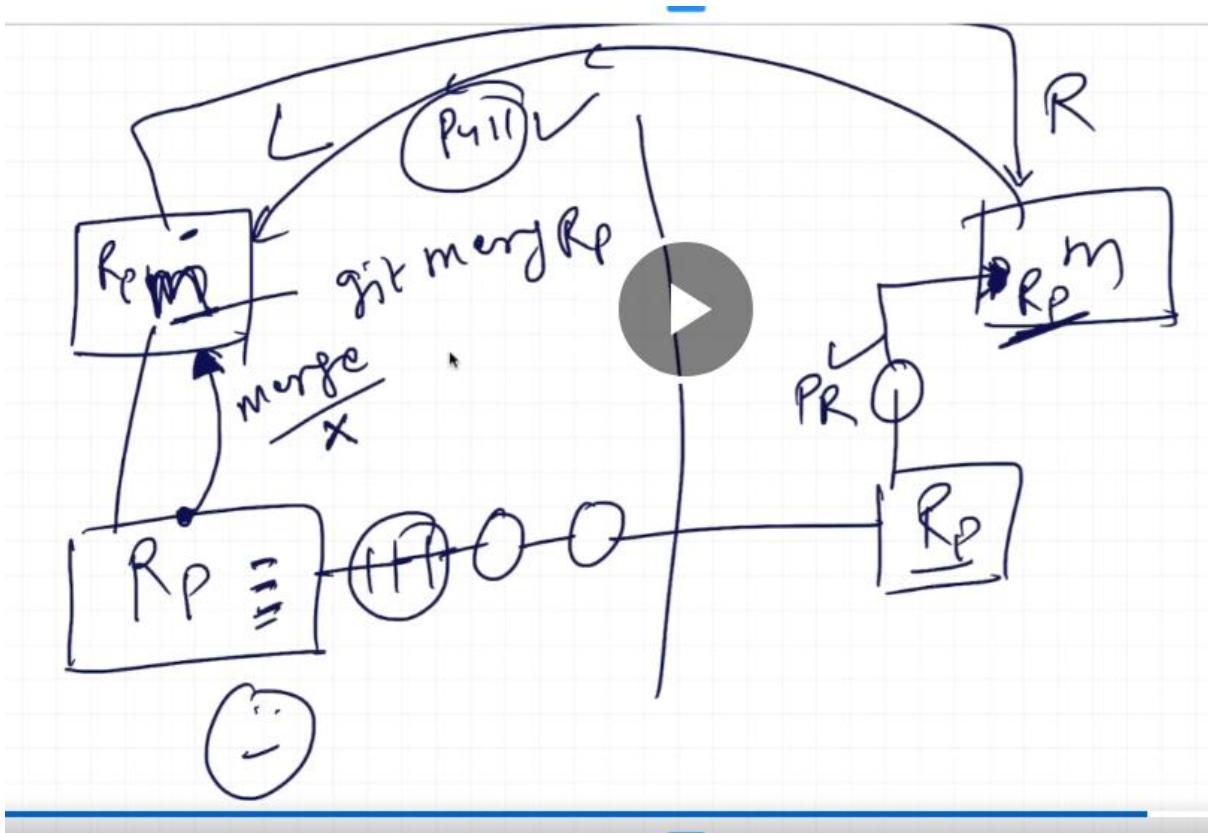




When only one person is working-

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.



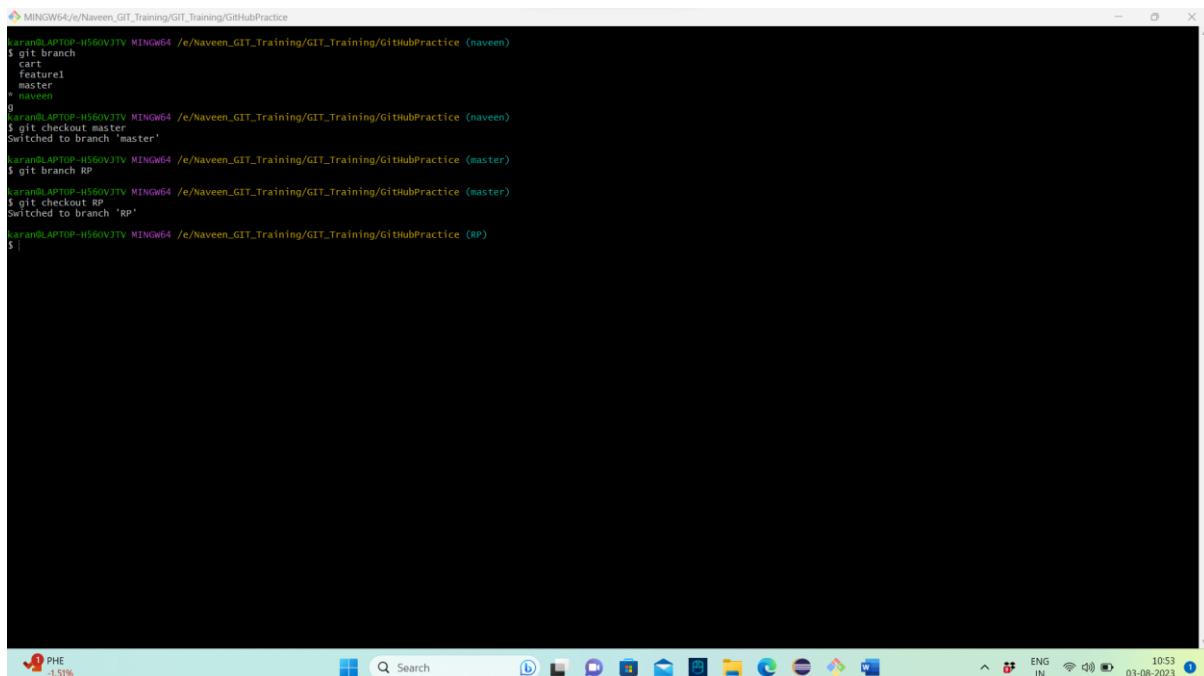
lets see this thing in action-

```
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (naveen)
$ git branch
  cart
  feature1
  master
* naveen
g
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (naveen)
$ git checkout master
Switched to branch 'master'

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git branch RP

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git checkout RP
Switched to branch 'RP'

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ |
```

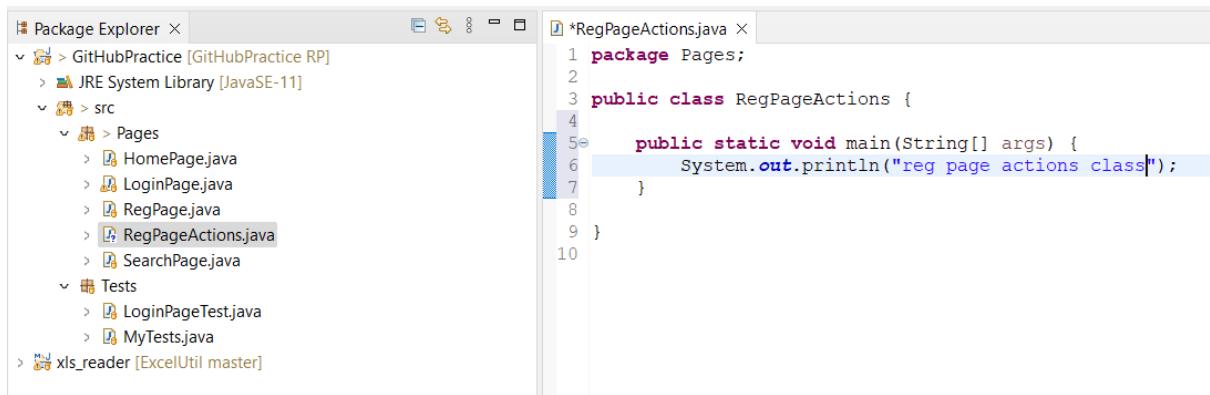


```
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (naveen)
$ git branch
  cart
  feature1
  master
* naveen
g
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (naveen)
$ git checkout master
Switched to branch 'master'

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git branch RP
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git checkout RP
Switched to branch 'RP'

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ |
```

New code added in rp branch-



Add, commit, and push-

```

karan@LAPTOP-H560VJTV 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-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ git add .

karan@LAPTOP-H560VJTV 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-H560VJTV 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-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (RP)
$ 

```

Refresh and code present-

The screenshot shows a GitHub repository page for 'GitHubCourse'. At the top, there's a banner indicating 'RP had recent pushes less than a minute ago'. Below this, the repository details show '3 branches' and '0 tags'. A message states 'This branch is 4 commits ahead of master.' On the right side, there's an 'About' section with a brief description: 'this is my github project for practice'. It also shows 'Activity' (0 stars), '1 watching', and '0 forks'. The 'Code' tab is selected. In the code area, there are two files listed: 'src' (reg page actions code, 1 minute ago) and '.gitignore' (first commit, last week). A button to 'Add a README' is visible. Other sections like 'Releases', 'Packages', and 'Languages' are present but collapsed.

Click compare and pull request-

This screenshot shows the same GitHub repository page after the 'Compare & pull request' button was clicked. The button has turned green, and the text 'Compare & pull request' is now displayed in white. The rest of the interface remains the same, including the repository details, the 'About' section, and the code listing.

Create pull request-

base: master ▾ compare: RP ▾ ✓ Able to merge. These branches can be automatically merged.

Rp

Write Preview

Rp to master [branch](#)

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Click merge-

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

Search or jump to...

Pull requests Issues Marketplace Explore

naveenanimation20 / GitHubCourse Public

Unwatch 1 Star 1

Code Issues Pull requests 1 Actions Projects Wiki Security Insight

Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors discover issues labeled with good first issue

Filters is:pr is:open Labels 9 Milestones 0

1 Open 1 Closed Author Label Projects Milestones Reviews Assign

#2 opened now by naveenanimation20

The screenshot shows a GitHub pull request page for a repository named 'Rp by naveenanimation20 · Pull Request · Learn Git Branching'. The pull request is titled 'Rp #2' and is from the user 'naveenanimation20' into the 'master' branch from the 'RP' branch. A green button labeled 'Open' is visible. Below the title, it says 'naveenanimation20 wants to merge 5 commits into master from RP'. A note at the bottom of the page says 'Add more commits by pushing to the RP branch on naveenanimation20/GitHubCourse.'

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request

You can also open this in GitHub Desktop or view command line instructions.

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

The screenshot shows a GitHub pull request page for a repository named 'Rp #1' by 'karanAtreya1986' into the 'master' branch from the 'RP' branch. It shows 4 commits. A green button labeled 'Open' is visible. Below the title, it says 'karanAtreya1986 wants to merge 4 commits into master from RP'. A note at the bottom of the page says 'Add more commits by pushing to the RP branch on karanAtreya1986/GitHubCourse.'

Require approval from specific reviewers before merging
Branch protection rules ensure specific people approve pull requests before they're merged. [Add rule](#)

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request

You can also open this in GitHub Desktop or view command line instructions.

Below the main content, there is a comment section with a 'Write' button and a preview area. The preview area contains the placeholder text 'Leave a comment'.

Confirm merge-

The screenshot shows a GitHub pull request merge dialog. At the top, it says "Rp #1" and "karanAtreya1986 wants to merge 4 commits into master from RP". Below this is a list of four commits:

- o added some new files
- o updated my test class
- o updated my test with city field
- o reg page actions code

Below the commits, there's a message: "Add more commits by pushing to the RP branch on karanAtreya1986/GitHubCourse." A modal window titled "Merge pull request #1 from karanAtreya1986/RP" is open, showing the branch name "Rp". It also states: "This commit will be authored by 140405970+karanAtreya1986@users.noreply.github.com". The modal has two buttons: "Confirm merge" (green) and "Cancel".

Merge done-

The screenshot shows the GitHub pull request after it has been merged. The status bar at the top now says "Rp #1 Merged". The commit history shows the four commits from the RP branch, followed by a merge commit from "Rp" into "master". The merge commit message is "karanAtreya1986 merged commit ca66c6e into master now".

A notification bubble at the bottom left says "Pull request successfully merged and closed. You're all set—the RP branch can be safely deleted." It includes a "Delete branch" button.

It says merged from rp to master-

Rp #1

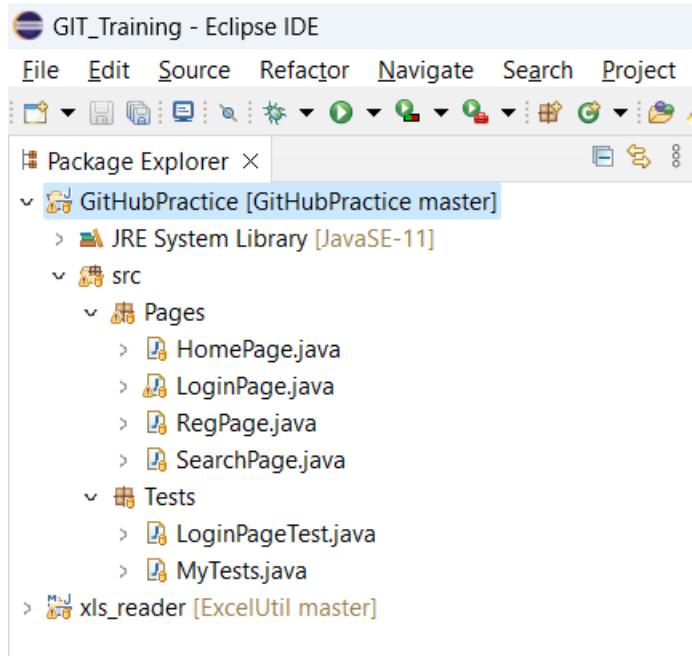
<- Merged

karanAtreya1986 merged 4 commits into **master** from **RP** now

Lets take latest pull-

Checkout to master first.

No reg page actions class in master –

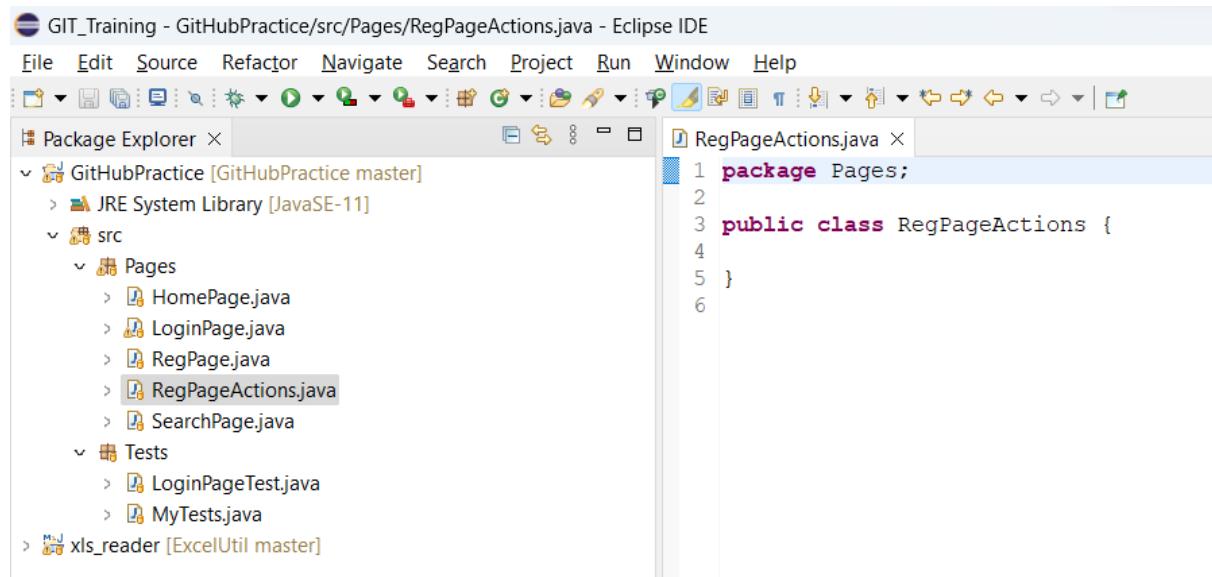


Git pull-

```
karan@LAPTOP-H560VJTV 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

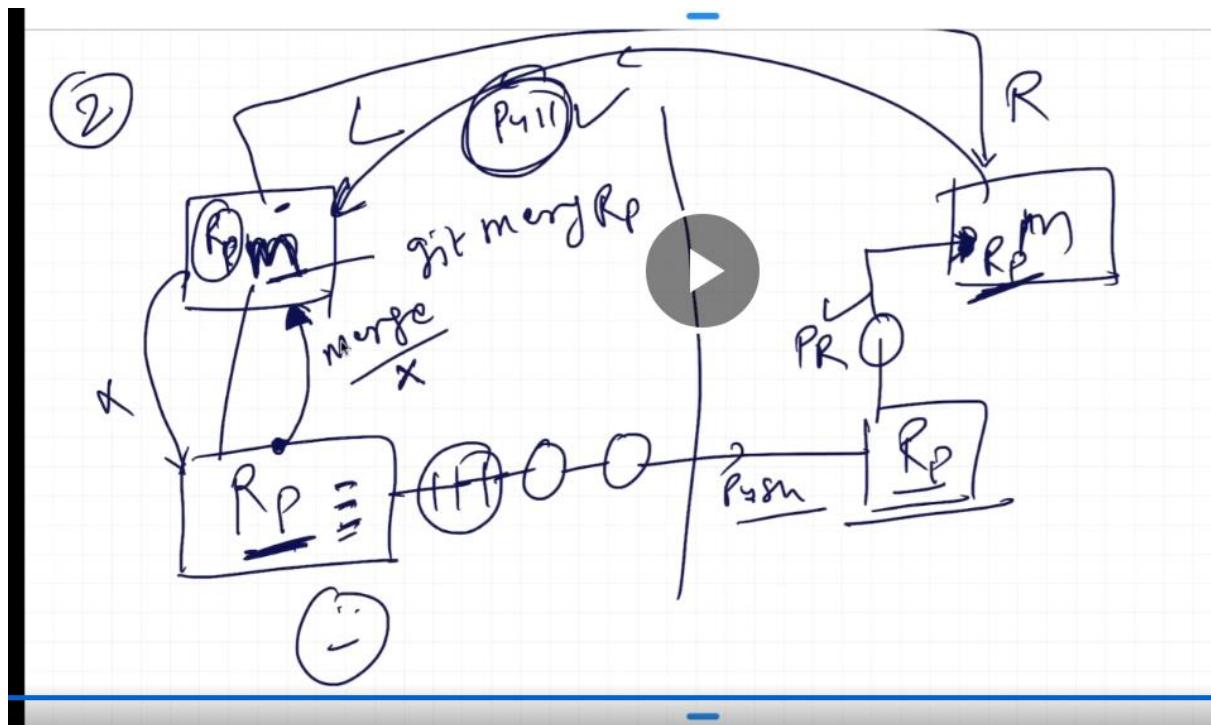
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

Refresh ide and it has come-

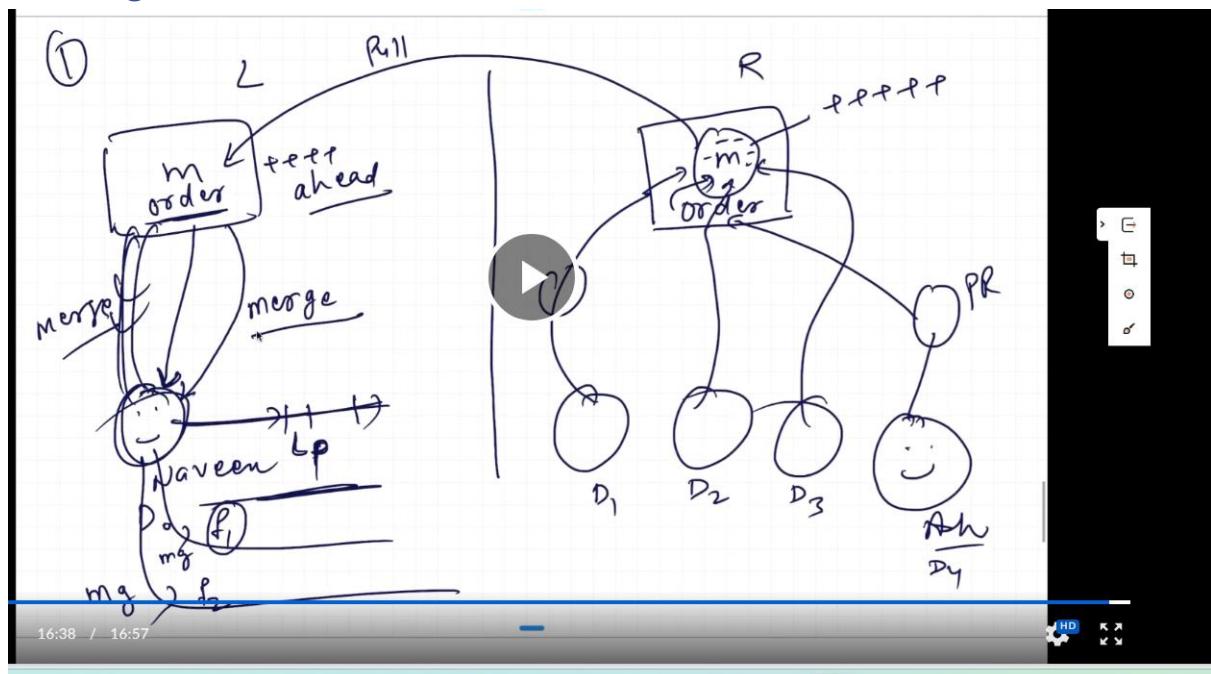


Second use case of merge is when only person in team, what is the practice to follow-

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 –

