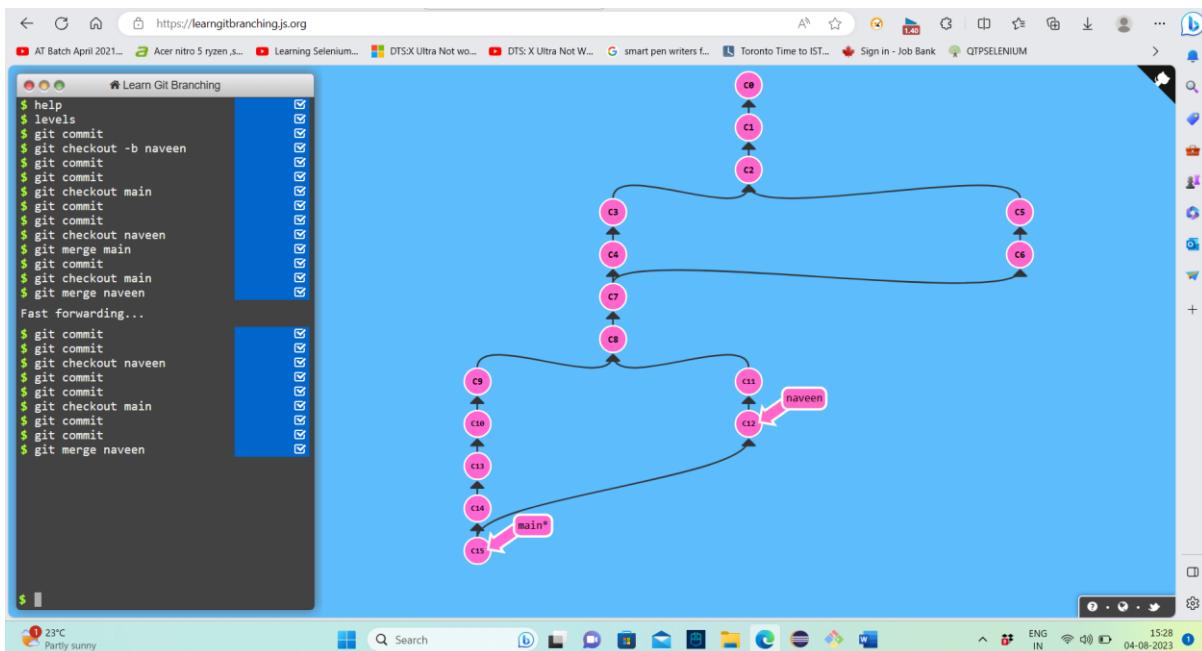
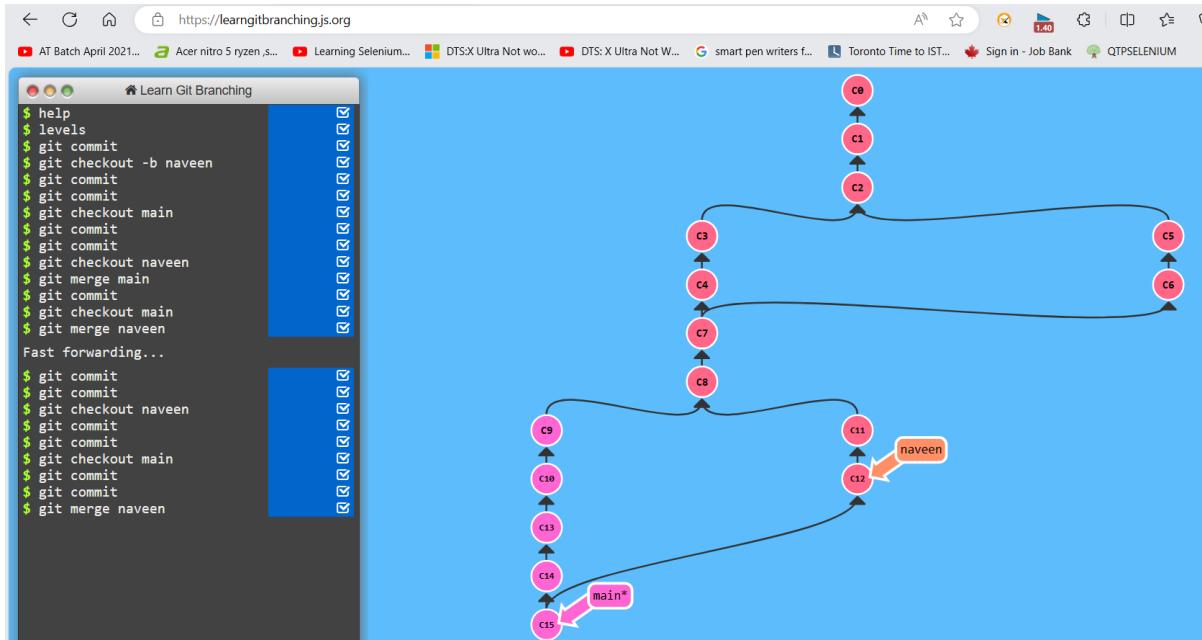


GIT Merge vs Rebase - Visualization

Note-

We can merge any branch with any branch in real time.

See how merge works in animation-



20_GIT_Merge_vs_Rebase_Visual | Learn Git Branching | Learn Git Branching | +

<https://learngitbranching.js.org>

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```
$ help
$ levels
$ git commit
$ git checkout -b naveen
$ git commit
$ git commit
$ git checkout main
$ git commit
$ git commit
$ git checkout naveen
$ git merge main
$ git commit
$ git checkout main
$ git commit
$ git merge naveen
Fast forwarding...
$ git commit
$ git commit
$ git checkout naveen
$ git commit
$ git commit
$ git checkout main
$ git commit
$ git commit
$ git merge naveen
```

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```
$ git commit
$ git commit
$ git checkout naveen
$ git commit
$ git commit
$ git checkout main
$ git commit
$ git commit
$ git checkout naveen
$ git merge main
$ git commit
$ git commit
$ git checkout naveen
$ git commit
$ git commit
$ git commit
$ git merge main
The command "git comm" isn't supported, sorry!
$ git commit
$ git merge main
$ git commit
$ git merge main
$ git commit
$ git commit
$ git commit
$ git merge main
Branch already up-to-date
$ git merge main
Branch already up-to-date
$ git checkout main
$ git merge naveen
Fast forwarding...
```

Learn Git Branching

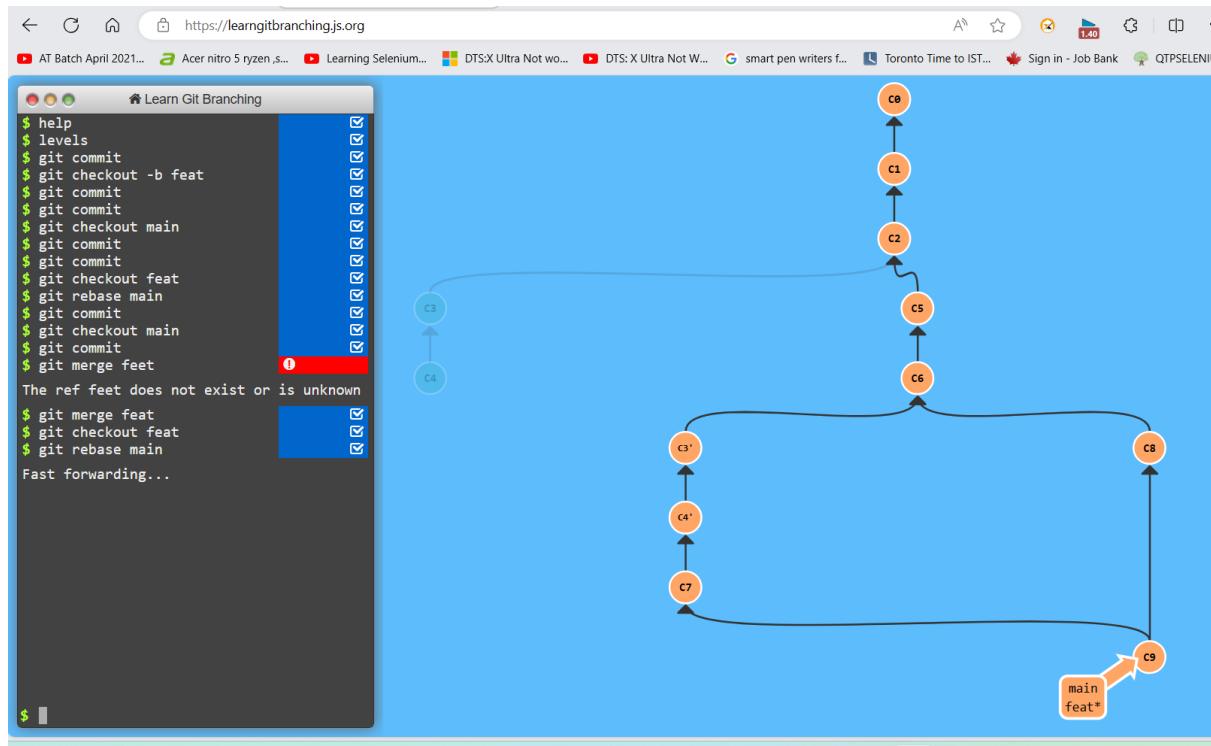
```
$ git commit
$ git commit
$ git checkout naveen
$ git commit
$ git commit
$ git checkout main
$ git commit
$ git commit
$ git merge naveen
$ git commit
$ git commit
$ git checkout naveen
$ git commit
$ git merge main
Branch already up-to-date
$ git merge main
Branch already up-to-date
$ git checkout main
$ git merge naveen
Fast forwarding...
$
```

The command "git comm" isn't supported, sorry!

24°C Temps drop

Learn Git Branching

```
$ help
$ levels
$ git commit
$ git checkout -b feat
$ git commit
$ git commit
$ git checkout main
$ git commit
$ git commit
$ git checkout feat
$ git rebase main
$ git commit
$ git checkout main
$ git commit
$ git merge feet
The ref feet does not exist or is unknown
$ git merge feat
```



The above merge is also known as fast forward merge.

Git log – will show all the commits, even the greyed out ones.

Rebase used when it is a one person team, and he or she is working on multiple features within a branch.

We can also work on multiple feature branches.

When multiple people are working and they do rebase, when one of them wants to check history, then the ones with hash code will be seen.

This will create confusion as to from where they started and where they are now.

Rebase is very dangerous. Does not maintain proper branching.

Multiple devs – better to use merge.

Note-

Multiple dev- same feature -same branch – always use merge.