GIT:Level4

Task 1:

In this task we have to rebase the commit and forcefully move the branch to the certain commit to achieve the goal.

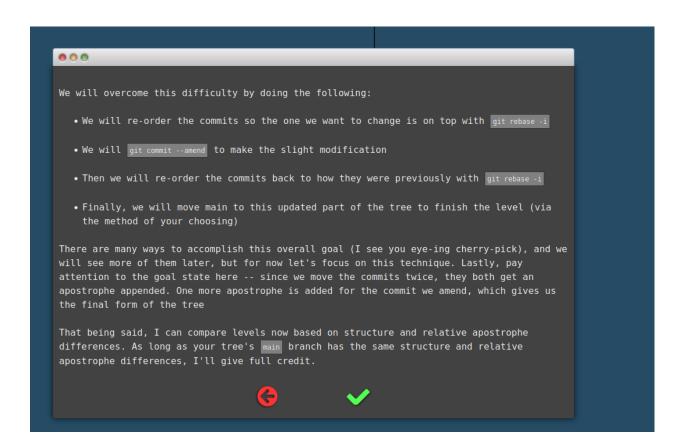


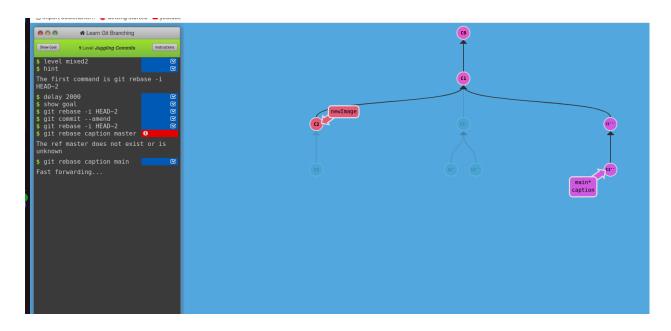
```
git rebase -i HEAD~3
pick commit C2 and C3 and omit C4
git branch -f main C4'
```

Task 2:

In this task we have to use git commit —ammen command. The git commit --amend command is used to modify the most recent commit. This can be useful if you want to change the commit message, add new changes, or modify the content of the commit.







```
git rebase -i HEAD~2
rearrange
git commit --amend
git rebase -i HEAD~2
rearrange
git rebase caption master
```

Task 3

In this task we have to use git cherry-pitk command to achive the following goal.

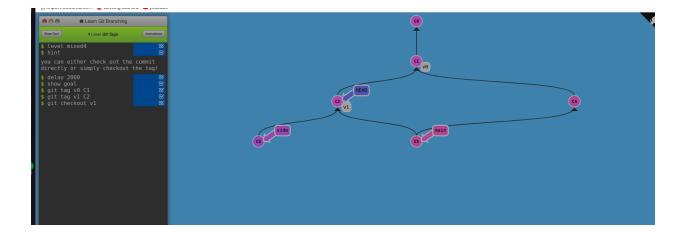


cherry-pick command move the commit to that branch onto which the head is pointing. In this initially the head is pointing to caption branch. So to achieve the goal move the head pointer to the main branch.

```
git checkout main
git cherry-pick C2
git commit --amend
git cherry-pick C3
```

Task 4

In this task we have to use git tag.



```
git tag v0 C1
git tag v1 C2
git checkout v1
```

Task 5

Git Describe

Because tags serve as such great "anchors" in the codebase, git has a command to *describe* where you are relative to the closest "anchor" (aka tag). And that command is called <u>git describe</u>!

Git describe can help you get your bearings after you've moved many commits backwards or forwards in history; this can happen after you've completed a git bisect (a debugging search) or when sitting down at the computer of a coworker who just got back from vacation.

Git describe takes the form of:

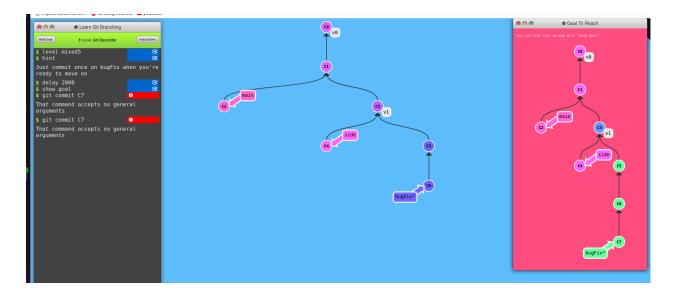
```
git describe <ref>
```

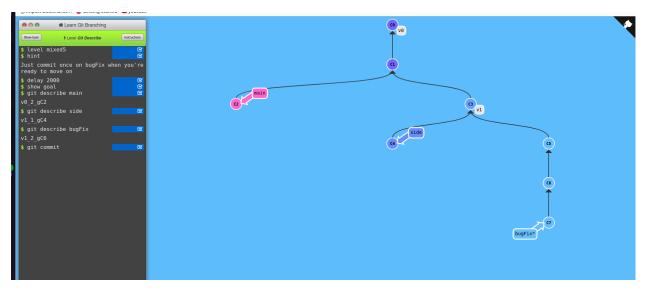
Where ref> is anything git can resolve into a commit. If you don't specify a ref,
git just uses where you're checked out right now (HEAD).

The output of the command looks like:

```
<tag>_<numCommits>_g<hash>
```

Where tag is the closest ancestor tag in history, numcommits is how many commits away that tag is, and hash is the hash of the commit being described.





git describe main git describe side git describe bugFix git commit