SELF LEARNING BATCH 2025

Version Control using Git

Cherry-Picking Commits Between Branches

Objective:

• Selectively apply a commit from one branch to another using cherry-pick.

Requirements:

- Create two branches with distinct commits.
- o Identify a commit on one branch that you want to apply to the other.
- Use git cherry-pick <commit-hash> to apply the commit and handle any conflicts if they arise.
- Verify the commit history to ensure the cherry-picked commit is present.

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7

$ touch index.html feature.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7

$ git init
Initialized empty Git repository in C:/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7/.git/

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)

$ |
```

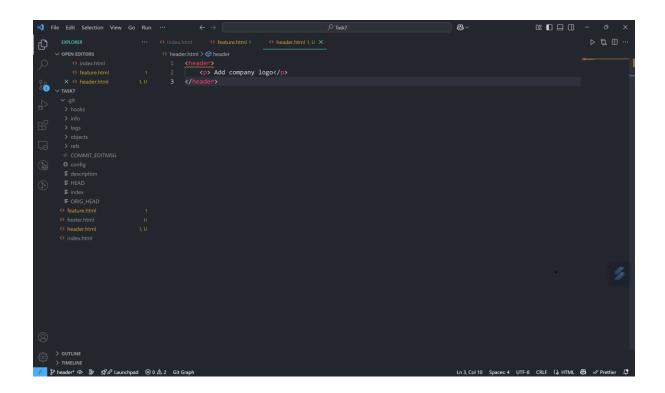
```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)
$ git branch header fatal: a branch named 'header' already exists

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)
$ git checkout header switched to branch 'header'

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ touch header.html footer.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ touch header.html footer.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ |
```



```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

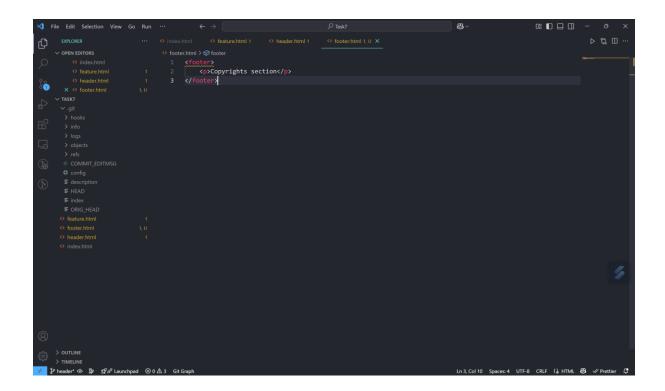
ontrol using Git/Task7 (header)
$ git status
On branch header
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        footer.html
        header.html

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

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git add header.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git commit -m "add header.html"
[header dc6cb93] add header.html
1 file changed, 3 insertions(+)
        create mode 100644 header.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ |
```

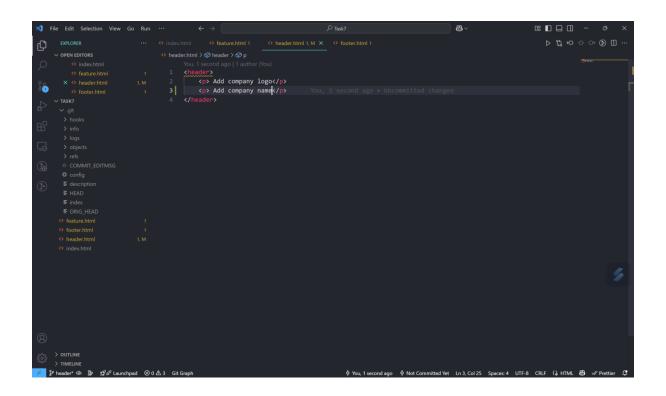


```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git add footer.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git commit -m "add footer.html"
[header 79a7911] add footer.html
1 file changed, 3 insertions(+)
create mode 100644 footer.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git branch
* header
master

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
$ git status
on branch header
nothing to commit, working tree clean
```



```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)

$ git add header.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)

$ git commit -m "update header.html

1 file changed, 1 insertion(+)

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)

$ git branch

* header

master

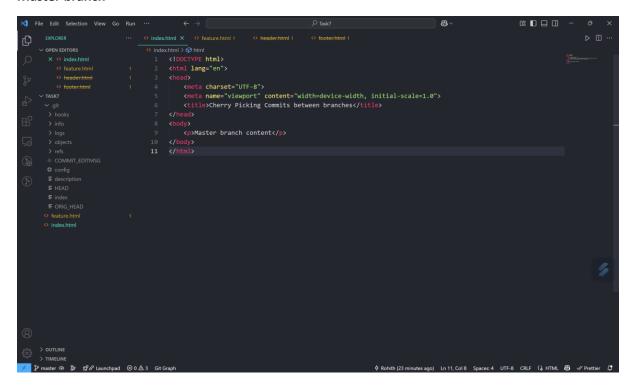
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)

$ git checkout master

Switched to branch 'master'

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (header)
```

Master branch

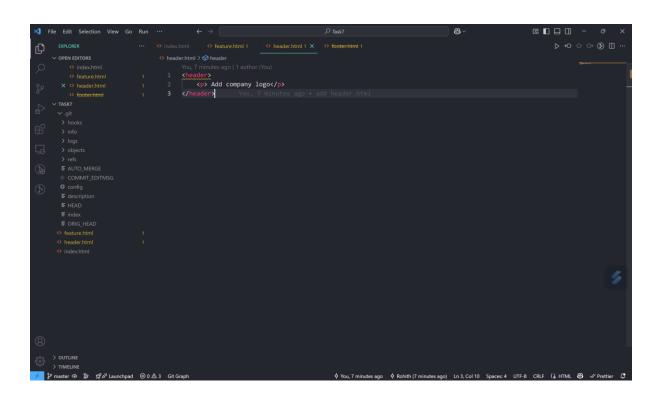


```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git log header --oneline
80be875 (header) update header.html
79a7911 add footer.html
dc6cb93 add header.html
9fc63e3 (HEAD -> master) add feature.html
a9b2b98 Add index file

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git cherry-pick dc6cb93
[master a5f44c2] add header.html
Date: Sun Mar 23 16:26:30 2025 +0530
1 file changed, 3 insertions(+)
create mode 100644 header.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git log --oneline
a5f44c2 (HEAD -> master) add header.html
9fc63e3 add feature.html
a9b2b98 Add index file
```



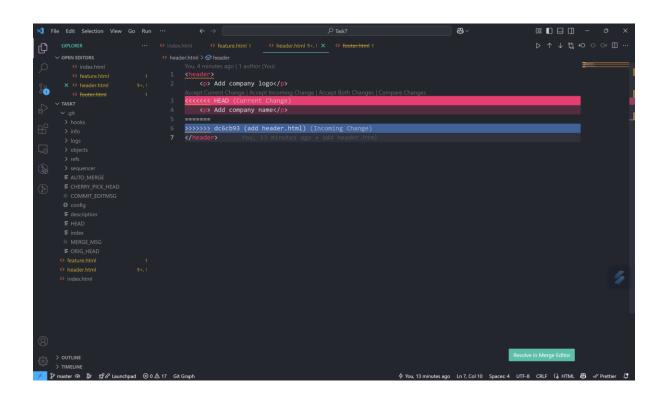
Here first its cherry picking 'update header.html' and then 'add herader.html'. Hence once the first cherry pick is done, it results in conflict during the second cherry pick command.

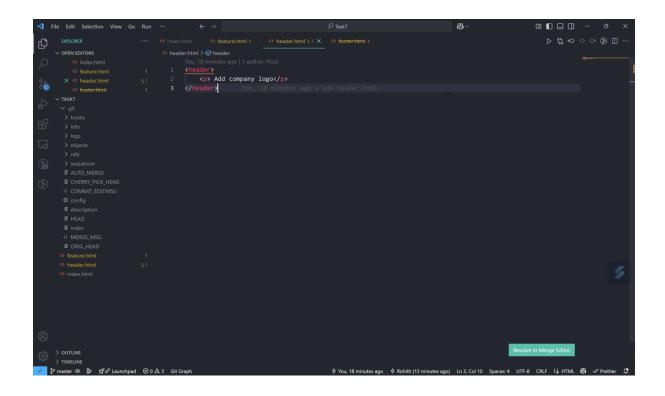
Resolve the conflict manually and stage the file by git add <filename> then complete the cherry-pick by git cherry-pick —continue or git cherry-pick —abort.

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

ontrol using Git/Task7 (master)
$ git log header --oneline
80be875 (header) update header.html
79a7911 add footer.html
dc6cb93 add header.html
99c63e3 add feature.html
a9b2b98 Add index file

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git cherry-pick 80be875 dc6cb93
[master cccdc03] update header.html
Date: Sun Mar 23 16:30:55 2025 +0530
1 file changed, 1 insertion(+)
Auto-merging header.html
CONFLICT (add/add): Merge conflict in header.html
error: could not apply dc6cb93... add header.html
hint: After resolving the conflicts, mark them with
hint: "git add/rm <pathspec>", then run
hint: "git cherry-pick --continue".
hint: You can instead skip this commit with "git cherry-pick --skip".
hint: To abort and get back to the state before "git cherry-pick",
hint: run "git cherry-pick --abort".
hint: Disable this message with "git config set advice.mergeConflict false"
```





```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master|CHERRY-PICKING)

$ git add header.html

rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master|CHERRY-PICKING)

$ git cherry-pick --abort

rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)

$ git status

on branch master

nothing to commit, working tree clean

rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)

$ git log --oneline

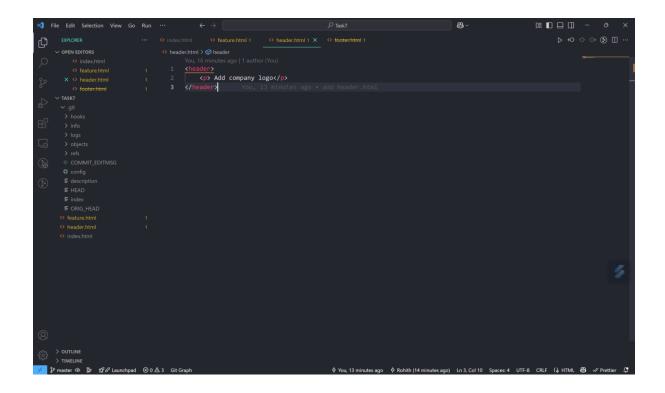
a5f44c2 (HEAD -> master) add header.html

9fc63e3 add feature.html

a9b2b98 Add index file

rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)

$ |
```



Now lets do the same and continue instead of aborting

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git log --oneline
a5f44c2 (HEAD -> master) add header.html
99fc63e3 add feature.html
a9b2b98 Add index file

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git log header --oneline
80be875 (header) update header.html
79a7911 add footer.html
9fc63e3 add feature.html
9fc63e3 add feature.html
9fc63e3 add feature.html
a9b2b98 Add index file

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master)
$ git cherry-pick 80be875 dc6cb93
[master 28d8ab3] update header.html
Date: Sun Mar 23 16:30:55 2025 +0530
1 file changed, 1 insertion(+)
Auto-merging header.html
```

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

dc6cb93 add header.html
9fc63e3 add feature.html
a9b2b98 Add index file

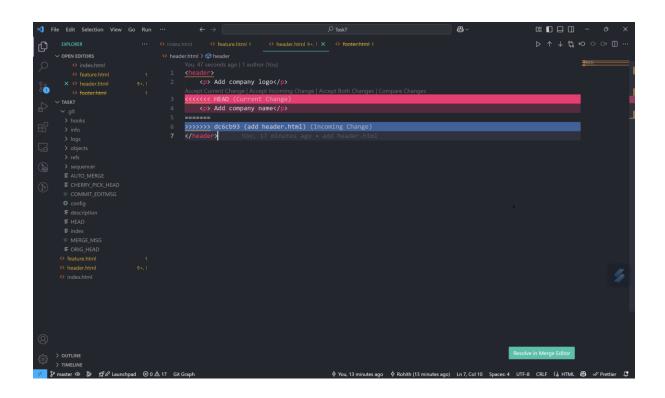
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)

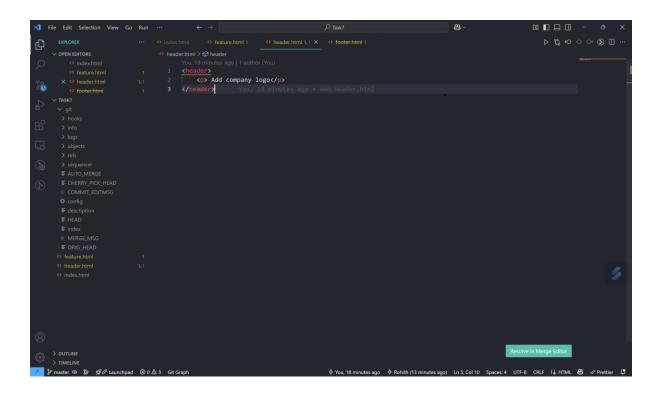
§ git cherry-pick 80be875 dc6cb93
[master 28d8ab3] update header.html
Date: Sun Mar 23 16:30:55 2025 +0530

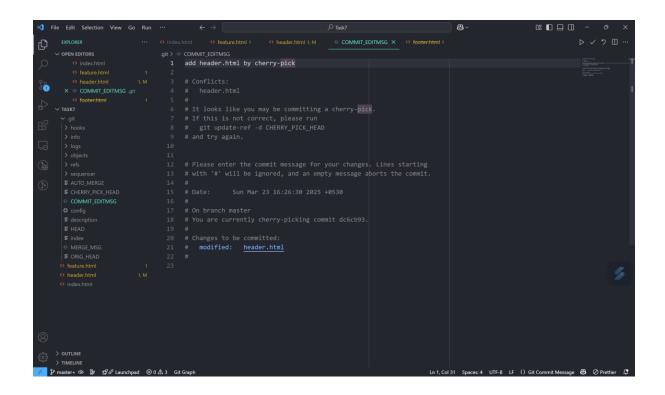
1 file changed, 1 insertion(+)
Auto-merging header.html
CONFLICT (add/add): Merge conflict in header.html
error: could not apply dc6cb93... add header.html
hint: After resolving the conflicts, mark them with
hint: "git add/rm <pathspec>", then run
hint: "git add/rm <pathspec>", then run
hint: "git cherry-pick --continue".
hint: To abort and get back to the state before "git cherry-pick",
hint: run "git cherry-pick --abort".
hint: Disable this message with "git config set advice.mergeConflict false"

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task7 (master|CHERRY-PICKING)

$ |
```







```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master|CHERRY-PICKING)
$ git add header.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master|CHERRY-PICKING)
$ git cherry-pick --continue
[master f66010b] add header.html by cherry-pick
Date: Sun Mar 23 16:26:30 2025 +0530
1 file changed, 1 deletion(-)

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)
$ git log --oneline
f66010b (HEAD -> master) add header.html by cherry-pick
28d8ab3 update header.html
9fc63e3 add feature.html
9fc63e3 add feature.html
9fc63e3 add feature.html
a9b2b98 Add index file

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task7 (master)
```