

## Assignment no 5




### Git Cherry Pick

#### Use Case - 1


**Use Case 1)** Create a user case for cherry-pick a commit gone to wrong branch [dev] and merge it on correct branch[master].


**Point 1:** We have master branch on that we have 3 files. Similarly , if we create dev branch from main all the files are reflected in dev branch.





```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ ls
Ass1.txt  Ass2.txt  README.md  login.html
```

 main ▾  2 branches  0 tags




[Go to file](#) [Add file ▾](#) [Code ▾](#)

 **Your main branch isn't protected**  
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) [Protect this branch](#) ×

 **abhu8790** Assignment added! 38ef886 2 minutes ago 2 commits


 Ass1.txt	Assignment added!	2 minutes ago
 Ass2.txt	Assignment added!	2 minutes ago
 README.md	Initial commit	6 minutes ago
 login.html	Assignment added!	2 minutes ago





```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ ls
Ass1.txt  Ass2.txt  README.md  login.html
```

 dev ▾  2 branches  0 tags

[Go to file](#) [Add file ▾](#) [Code ▾](#)

This branch is up to date with main. [Contribute ▾](#)

 **abhu8790** Assignment added! 38ef886 3 minutes ago 2 commits

 Ass1.txt	Assignment added!	3 minutes ago
 Ass2.txt	Assignment added!	3 minutes ago
 README.md	Initial commit	7 minutes ago
 login.html	Assignment added!	3 minutes ago

**Point 2:** Now we are in dev branch. Here we create file Forgot.html and edit file login.html. Stage, commit it and push it to dev branch. But after pushing I realize that I wanted to push it on main branch but I push it on to dev branch.

```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git checkout dev
Switched to a new branch 'dev'
branch 'dev' set up to track 'origin/dev'.

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ ls
Ass1.txt  Ass2.txt  README.md  login.html

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi Forgot.html

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi login.html

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'login.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Forgot.html', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "Forgot.html is added and committed! login.html is edited and committed!"
[dev 016b124] Forgot.html is added and committed! login.html is edited and committed!
 2 files changed, 2 insertions(+)
 create mode 100644 Forgot.html

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 372 bytes | 372.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
 38ef886..016b124  dev -> dev
```

dev had recent pushes 1 minute ago [Compare & pull request](#)

dev 2 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit ahead of main. [Contribute](#)

Commit	Message	Time
016b124	Forgot.html is added and committed! loign.htm is edited and comiited!	1 minute ago
38ef886	Assignment added!	9 minutes ago
ff7b752	Assignment added!	9 minutes ago
016b124	Forgot.html is added and committed! loign.htm is edited and comiited!	1 minute ago
ff7b752	Initial commit	13 minutes ago
016b124	Forgot.html is added and committed! loign.htm is edited and comiited!	1 minute ago

**Point 3:** Now when run git log command we get commit history. Use SHA of the commit that you mistakenly push to wrong branch and cherry pick it.

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git log --graph
* commit 016b124181c352233cb873783648927d59d55fba (HEAD -> dev, origin/dev)
  Author: abhu8790 <abhu8790@gmail.com>
  Date:   Sun Mar 19 00:41:18 2023 +0530

      Forgot.html is added and committed! loign.htm is edited and comiited!

* commit 38ef886b6ebe474c69e61ec0fbd71fcee9bf1cfb (origin/main, origin/HEAD, main)
  Author: abhu8790 <abhu8790@gmail.com>
  Date:   Sun Mar 19 00:32:28 2023 +0530

      Assignment added!

* commit ff7b752e281f60d864f8e41f3a2414add3f62d77
  Author: abhu8790 <126494444+abhu8790@users.noreply.github.com>
  Date:   Sun Mar 19 00:28:31 2023 +0530

      Initial commit

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git cherry-pick 016b124181c352233cb873783648927d59d55fba
[main bb49603] Forgot.html is added and committed! loign.htm is edited and comiited!
Date: Sun Mar 19 00:41:18 2023 +0530
2 files changed, 2 insertions(+)
create mode 100644 Forgot.html

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 378 bytes | 378.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
   38ef886..bb49603  main -> main

```

main
 2 branches
 0 tags
 Go to file
Add file
<> Code

**Your main branch isn't protected**  
 Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)
Protect this branch
×

**abhu8790** Forgot.html is added and committed! loign.htm is edited and comiited! bb49603 5 minutes ago 3 commits

Ass1.txt	Assignment added!	16 minutes ago
Ass2.txt	Assignment added!	16 minutes ago
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	5 minutes ago
README.md	Initial commit	20 minutes ago
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	5 minutes ago

**Point 4:** Observe that Changes reelected in master branch that we wanted.

## Before Cherry-Pick

main
 2 branches
 0 tags
 Go to file
Add file
<> Code

**Your main branch isn't protected**  
 Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)
Protect this branch
×

**abhu8790** Assignment added! 38ef886 2 minutes ago 2 commits

Ass1.txt	Assignment added!	2 minutes ago
Ass2.txt	Assignment added!	2 minutes ago
README.md	Initial commit	6 minutes ago
login.html	Assignment added!	2 minutes ago

## After Cherry-Pick

main
 2 branches
 0 tags
 Go to file
Add file
<> Code

**Your main branch isn't protected**  
 Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)
Protect this branch
×

**abhu8790** Forgot.html is added and committed! loign.htm is edited and comiited! bb49603 5 minutes ago 3 commits




Ass1.txt	Assignment added!	16 minutes ago
Ass2.txt	Assignment added!	16 minutes ago
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	5 minutes ago
README.md	Initial commit	20 minutes ago
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	5 minutes ago

## Use Case - 2



**Use Case 2)** Create a use case for cherry pick few commits from feature branch [3 out of 5 commits] and merge that on master.



**Point 1:** We have master branch on that we have 4 files. Similarly , if we create dev branch from main all the files are reflected in dev branch.






```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ ls
Ass1.txt  Ass2.txt  Forgot.html  README.md  login.html
```

 main  2 branches  0 tags




[Go to file](#) [Add file](#) [Code](#)

 **Your main branch isn't protected**  
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) [Protect this branch](#) 

 **abhu8790** Forgot.html is added and committed! loign.htm is edited and comiited! bb49603 14 minutes ago  3 commits



 Ass1.txt	Assignment added!	25 minutes ago
 Ass2.txt	Assignment added!	25 minutes ago
 Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	14 minutes ago
 README.md	Initial commit	29 minutes ago
 login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	14 minutes ago






```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ ls
Ass1.txt  Ass2.txt  Forgot.html  README.md  login.html
```

 dev  2 branches  0 tags

[Go to file](#) [Add file](#) [Code](#)

This branch is [1 commit ahead](#), [1 commit behind](#) main. [Contribute](#)

 **abhu8790** Forgot.html is added and committed! loign.htm is edited and comiited! 016b124 17 minutes ago  3 commits

 Ass1.txt	Assignment added!	26 minutes ago
 Ass2.txt	Assignment added!	26 minutes ago
 Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	17 minutes ago
 README.md	Initial commit	30 minutes ago
 login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	17 minutes ago

**Point 2:** Now we are in dev branch. Here we create file Style.css and edit file Ass3.txt 4 times. Stage, commit it and push it to dev branch **one by one**. But after pushing I realize that I wanted to push it on main branch but I push it on to dev branch.




### 1<sup>st</sup> Commit :


```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi Style.css









bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'Style.css', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "1. My First commit Style.css is created and committed!"
[dev c88f92e] 1. My First commit Style.css is created and committed!
1 file changed, 1 insertion(+)
create mode 100644 Style.css

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
016b124..c88f92e dev -> dev
```

 dev ▾  2 branches  0 tags Go to file Add file ▾ <> Code ▾

This branch is [2 commits ahead](#), [1 commit behind](#) main.  [Contribute ▾](#)

 <b>abhu8790</b> 1. My First commit Style.css is created and committed! <span>c88f92e 1 minute ago</span>  4 commits
 Ass1.txt <span>Assignment added!</span> <span>33 minutes ago</span>
 Ass2.txt <span>Assignment added!</span> <span>33 minutes ago</span>
 Forgot.html <span>Forgot.html is added and committed! loign.htm is edited and comiited!</span> <span>24 minutes ago</span>
 README.md <span>Initial commit</span> <span>37 minutes ago</span>
 Style.css <span>1. My First commit Style.css is created and committed!</span> <span>1 minute ago</span>
 login.html <span>Forgot.html is added and committed! loign.htm is edited and comiited!</span> <span>24 minutes ago</span>

### 2<sup>nd</sup> Commit :

```




bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi Ass3.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'Ass3.txt', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "2. My Second Commit! Ass3.txt edited by Pratik!"
[dev 8efe005] 2. My Second Commit! Ass3.txt edited by Pratik!
1 file changed, 1 insertion(+)
create mode 100644 Ass3.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
c88f92e..8efe005 dev -> dev

```

 dev
  2 branches
  0 tags

[Go to file](#)
[Add file](#)
[Code](#)

This branch is 3 commits ahead, 1 commit behind main. [Contribute](#)

	abhu8790 2. My Second Commit! Ass3.txt edited by Pratik!	8efe005 now 5 commits
Ass1.txt	Assignment added!	36 minutes ago
Ass2.txt	Assignment added!	36 minutes ago
Ass3.txt	2. My Second Commit! Ass3.txt edited by Pratik!	now
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	27 minutes ago
README.md	Initial commit	40 minutes ago
Style.css	1. My First commit Style.css is created and committed!	4 minutes ago
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	27 minutes ago

### 3<sup>rd</sup> Commit :

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi Ass3.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'Ass3.txt', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "3. My Third Commit! Ass3.txt edited by Somnath!"
[dev c4e7ed6] 3. My Third Commit! Ass3.txt edited by Somnath!
1 file changed, 1 insertion(+)

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 321 bytes | 321.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
8efe005..c4e7ed6 dev -> dev

```

dev

2 branches

0 tags

Go to file
Add file
Code

This branch is 4 commits ahead, 1 commit behind main.
Contribute

	abhu8790 3. My Third Commit! Ass3.txt edited by Somnath!	c4e7ed6 1 minute ago	6 commits
	Ass1.txt	Assignment added!	38 minutes ago
	Ass2.txt	Assignment added!	38 minutes ago
	Ass3.txt	3. My Third Commit! Ass3.txt edited by Somnath!	1 minute ago
	Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	29 minutes ago
	README.md	Initial commit	42 minutes ago
	Style.css	1. My First commit Style.css is created and committed!	6 minutes ago
	login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	29 minutes ago

4<sup>th</sup> Commit :

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi Ass3.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'Ass3.txt', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "4. My Fourth commit! Ass3.txt is edited by Bhushan!"
[dev 74268be] 4. My Fourth commit! Ass3.txt is edited by Bhushan!
 1 file changed, 1 insertion(+)

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 340 bytes | 340.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
   c4e7ed6..74268be dev -> dev

```

This branch is 5 commits ahead, 1 commit behind main.
Contribute

	abhu8790 4. My Fourth commit! Ass3.txt is edited by Bhushan!	74268be now	7 commits
	Ass1.txt	Assignment added!	40 minutes ago
	Ass2.txt	Assignment added!	40 minutes ago
	Ass3.txt	4. My Fourth commit! Ass3.txt is edited by Bhushan!	now
	Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	32 minutes ago
	README.md	Initial commit	44 minutes ago
	Style.css	1. My First commit Style.css is created and committed!	8 minutes ago
	login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	32 minutes ago

5<sup>th</sup> Commit :



```

bhush@bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi data.db

bhush@bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'data.db', LF will be replaced by CRLF the next time Git touches it

bhush@bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "5. My Fifth commit! Data.db is created!"
[dev 340a12c] 5. My Fifth commit! Data.db is created!
1 file changed, 1 insertion(+)
create mode 100644 data.db

bhush@bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 299 bytes | 299.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
74268be..340a12c dev -> dev

```

dev
 2 branches
 0 tags
 Go to file
Add file
<> Code

This branch is 6 commits ahead, 1 commit behind main.
 Contribute

Commit	Message	SHA	Time
abhu8790	5. My Fifth commit! Data.db is created!	340a12c	now
	Ass1.txt		44 minutes ago
	Ass2.txt		44 minutes ago
	Ass3.txt		4 minutes ago
	Forgot.html		36 minutes ago
	README.md		48 minutes ago
	Style.css		12 minutes ago
	data.db		now
	login.html		36 minutes ago

**Point 3:** Now when run git log command we get commit history. Use SHA of the commit that you mistakenly push to wrong branch and cherry pick it.

a) When we run git log command we get the history as follows:

```

bhush@bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git log --graph --pretty=oneline
* 340a12ca39d63e64fd3d3097ac7c2ab8b267eb7f (HEAD -> dev, origin/dev) 5. My Fifth commit! Data.db is created!
* 74268beba64da5126fe3af1d43340f731d6b762e 4. My Fourth commit! Ass3.txt is edited by Bhushan!
* c4e7ed6bfab811a0517152ffe9142a2c6b25a829 3. My Third Commit! Ass3.txt edited by Somnath!
* 8efe0050083b9de4cade4e246c3aled32880bb61 2. My Second Commit! Ass3.txt edited by Pratik!
* c88f92e87e9a09605e787b5936bdb287c752ce01 1. My First commit Style.css is created and committed!
* 016b124181c352233cb873783648927d59d55fba Forgot.html is added and committed! loign.htm is edited and comitted!
* 38ef886b6ebe474c69e61ec0fbd71fcee9bf1cfc Assignment added!
* ff7b752e281f60d864f8e41f3a2414add3f62d77 Initial commit

```

b) Now use SHA of the commit that you mistakenly push to wrong branch and cherry-pick it.

i) First select the SHA of that commit where we create Style.css file and cherry-pick it.

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git cherry-pick c88f92e87e9a09605e787b5936bdb287c752ce01
[main 6ead246] 1. My First commit Style.css is created and committed!
Date: Sun Mar 19 01:04:41 2023 +0530
1 file changed, 1 insertion(+)
create mode 100644 Style.css

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 316.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
bb49603..6ead246 main -> main

```

main
2 branches
0 tags
Go to file
Add file
Code

Your main branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging.
Learn more
Protect this branch

abhu8790	1. My First commit Style.css is created and committed!	6ead246	1 minute ago	4 commits
Ass1.txt	Assignment added!		53 minutes ago	
Ass2.txt	Assignment added!		53 minutes ago	
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!		41 minutes ago	
README.md	Initial commit		1 hour ago	
Style.css	1. My First commit Style.css is created and committed!		1 minute ago	
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!		41 minutes ago	

ii) Now we select the SHA of that commit where we edit Ass.txt file by Somnath and cherry-pick it. But we got the merge conflict because we update the existing file. To solve the conflicts use mergetool command and use `-continue` option to continue cherry-picking as follows:

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git cherry-pick c4e7ed6bfab811a0517152ffe9142a2c6b25a829
CONFLICT (modify/delete): Ass3.txt deleted in HEAD and modified in c4e7ed6 (3. My Third Commit! Ass3.txt edited by Somnath!). Version c4e7ed6 (3. My Third Commit! Ass3.txt edited by Somnath!) of Ass3.txt left in tree.
error: could not apply c4e7ed6... 3. My Third Commit! Ass3.txt edited by Somnath!
hint: After resolving the conflicts, mark them with
hint: "git add/rm <paths>", 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".

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main|CHERRY-PICKING)
$ git mergetool

This message is displayed because 'merge.tool' is not configured.
See 'git mergetool --tool-help' or 'git help config' for more details.
'git mergetool' will now attempt to use one of the following tools:
opendiff kdiff3 tkdiff xdiff meld tortoisemerge gvimdiff diffmerge ecmerge p4merge araxis bc codecompare smer
ge emerge vimdiff nvimdiff
Merging:
Ass3.txt

Deleted merge conflict for 'Ass3.txt':
  {local}: deleted
  {remote}: modified file
Use (m)odified or (d)eleted file, or (a)bort? m

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main|CHERRY-PICKING)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

You are currently cherry-picking commit c4e7ed6.
  (all conflicts fixed: run "git cherry-pick --continue")
  (use "git cherry-pick --skip" to skip this patch)
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

Changes to be committed:
  new file:   Ass3.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  Ass3.txt.orig

```

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main|CHERRY-PICKING)
$ git push
Everything up-to-date

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main|CHERRY-PICKING)
$ git cherry-pick --continue
[main 70c31dc] 3. My Third Commit! Ass3.txt edited by Somnath!
Date: Sun Mar 19 01:10:09 2023 +0530
1 file changed, 2 insertions(+)
create mode 100644 Ass3.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 336 bytes | 336.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
6ead246..70c31dc main -> main

```

main 2 branches 0 tags Go to file Add file <> Code

**Your main branch isn't protected**  
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) **Protect this branch** X

abhu8790 3. My Third Commit! Ass3.txt edited by Somnath! 70c31dc 3 minutes ago 5 commits

Ass1.txt	Assignment added!	1 hour ago
Ass2.txt	Assignment added!	1 hour ago
Ass3.txt	3. My Third Commit! Ass3.txt edited by Somnath!	3 minutes ago
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	51 minutes ago
README.md	Initial commit	1 hour ago
Style.css	1. My First commit Style.css is created and committed!	11 minutes ago
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	51 minutes ago

iii) Now , we select the SHA of that commit where we create a new file data.db and cherry-pick it.

```
bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git cherry-pick 340a12ca39d63e64fd3d3097ac7c2ab8b267eb7f
[main fb11e21] 5. My Fifth commit! Data.db is created!
Date: Sun Mar 19 01:16:37 2023 +0530
1 file changed, 1 insertion(+)
create mode 100644 data.db

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 306 bytes | 306.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
70c31dc..fb11e21 main -> main
```

main
2 branches
0 tags
Go to file
Add file
Code

Your main branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging.
Protect this branch

abhu8790	5. My Fifth commit! Data.db is created!	fb11e21 now	6 commits
Ass1.txt	Assignment added!	1 hour ago	
Ass2.txt	Assignment added!	1 hour ago	
Ass3.txt	3. My Third Commit! Ass3.txt edited by Somnath!	6 minutes ago	
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	54 minutes ago	
README.md	Initial commit	1 hour ago	
Style.css	1. My First commit Style.css is created and committed!	14 minutes ago	
data.db	5. My Fifth commit! Data.db is created!	now	
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	54 minutes ago	

iv) Now , we checkout dev branch and create 2 files f1.txt and f2.txt. Stage , commit and push it one by one. Now checkout to main branch because we push that commit on wrong branch want push it main so use cherry-pick. Use git log to check SHA and select the 2 SHA of that commit where we create 2 new files f1.txt and f2.txt and cherry-pick it.

[Here we are trying with 2 SHA on single command]

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi f1.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'f1.txt', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "f1.txt is added!"
[dev cf55b8b] f1.txt is added!
2 files changed, 3 insertions(+)
create mode 100644 Ass3.txt.orig
create mode 100644 f1.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 357 bytes | 357.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
340a12c..cf55b8b dev -> dev

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ vi f2.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git add .
warning: in the working copy of 'f2.txt', LF will be replaced by CRLF the next time Git touches it

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git commit -m "f2.txt is added!"
[dev fa78c88] f2.txt is added!
2 files changed, 2 insertions(+)
create mode 100644 f1
create mode 100644 f2.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
cf55b8b..fa78c88 dev -> dev

```

```

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git log --graph --pretty=oneline
* fa78c88ea60c624c8b39b02876ae593d7b433ea0 (HEAD -> dev, origin/dev) f2.txt is added!
* cf55b8bc118665fcd6731d6d7e5aa028010dae98 f1.txt is added!
* 340a12ca39d63e64fd3d3097ac7c2ab8b267eb7f 5. My Fifth commit! Data.db is created!
* 74268beba64da5126fe3af1d43340f731d6b762e 4. My Fourth commit! Ass3.txt is edited by Bhushan!
* c4e7ed6bfab811a0517152ffe9142a2c6b25a829 3. My Third Commit! Ass3.txt edited by Somnath!
* 8efe0050083b9de4cade4e246c3a1ed32880bb61 2. My Second Commit! Ass3.txt edited by Pratik!
* c88f92e87e9a09605e787b5936bdb287c752ce01 1. My First commit Style.css is created and committed!
* 016b124181c352233cb873783648927d59d55fba Forgot.html is added and committed! loign.htm is edited and comiited!
* 38ef886b6ebe474c69e61ec0fbd71fcee9bf1cfb Assignment added!
* ff7b752e281f60d864f8e41f3a2414add3f62d77 Initial commit

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (dev)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git cherry-pick fa78c88ea60c624c8b39b02876ae593d7b433ea0 cf55b8bc118665fcd6731d6d7e5aa028010dae98
[main 2d71d6c] f2.txt is added!
Date: Sun Mar 19 01:41:41 2023 +0530
2 files changed, 2 insertions(+)
create mode 100644 1
create mode 100644 f2.txt
[main 298a24b] f1.txt is added!
Date: Sun Mar 19 01:40:34 2023 +0530
2 files changed, 3 insertions(+)
create mode 100644 Ass3.txt.orig
create mode 100644 f1.txt

bhush@Bhushan MINGW64 /c/DevOps-Practice/cherrypick (main)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 520 bytes | 520.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/abhu8790/cherrypick.git
fb11e21..298a24b main -> main

```

main
2 branches
0 tags
Go to file
Add file
Code

**Your main branch isn't protected**
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Protect this branch

**abhu8790** f1.txt is added!
298a24b 8 minutes ago 8 commits

1	f2.txt is added!	8 minutes ago
Ass1.txt	Assignment added!	1 hour ago
Ass2.txt	Assignment added!	1 hour ago
Ass3.txt	3. My Third Commit! Ass3.txt edited by Somnath!	20 minutes ago
Ass3.txt.orig	f1.txt is added!	8 minutes ago
Forgot.html	Forgot.html is added and committed! loign.htm is edited and comiited!	1 hour ago
README.md	Initial commit	1 hour ago
Style.css	1. My First commit Style.css is created and committed!	28 minutes ago
data.db	5. My Fifth commit! Data.db is created!	14 minutes ago
f1.txt	f1.txt is added!	8 minutes ago
f2.txt	f2.txt is added!	8 minutes ago
login.html	Forgot.html is added and committed! loign.htm is edited and comiited!	1 hour ago

fa78c88ea60c624c8b39b02876ae593d7b433ea0

cf55b8bc118665fcd6731d6d7e5aa028010dae98