Cherry pick git code

Now we will move to the concept of cherry-picking it is basically a process in which commit from one branch is copied to the other branch

first of all select the commit from git log from the branch you want to duplicate check for the commit and copy first four digits now create a new branch and switch to that branch

$git switch -c lost-data

in this branch open the file on which the commit is being performed in other branch in this case we are going edit index.html open the file and add one new line in the file now perform

$git add .

and then

$git commit -m "Some commit"

now execute

$git cherry-pick 0c92 (the digits copied from commit of the other branch)

there will be an error in cherry picking process and shows the branch is in the state of cherry-picking now check the log andyou will see that index.html is in the unmerged path you have to edit index.html remove the conflicts in the file and then add it into the directory now perform

$git cherry-pick --continue

after completing the cherry-pick process you will see that in the git log history of branch same commit is present in history but the commit number or digit is diiferemt from the commit in the other branch.

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts (more-important-task)

$ git switch master

Switched to branch 'master'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts (master)

$ git switch lost-data

Switched to branch 'lost-data'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts (lost-data)

$ cd src/

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ nano index.html

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git cherry-pick

usage: git cherry-pick [<options>] <commit-ish>...

or: git cherry-pick <subcommand>

--quit end revert or cherry-pick sequence

--continue resume revert or cherry-pick sequence

--abort cancel revert or cherry-pick sequence

--skip skip current commit and continue

--cleanup <mode> how to strip spaces and #comments from message

-n, --no-commit don't automatically commit

-e, --edit edit the commit message

-s, --signoff add a Signed-off-by trailer

-m, --mainline <parent-number>

select mainline parent

--rerere-autoupdate update the index with reused conflict resolution if possible

--strategy <strategy>

merge strategy

-X, --strategy-option <option>

option for merge strategy

-S, --gpg-sign[=<key-id>]

GPG sign commit

-x append commit name

--ff allow fast-forward

--allow-empty preserve initially empty commits

--allow-empty-message

allow commits with empty messages

--keep-redundant-commits

keep redundant, empty commits

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git commit -m "some commit"

On branch lost-data

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

no changes added to commit (use "git add" and/or "git commit -a")

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git add .

warning: LF will be replaced by CRLF in src/index.html.

The file will have its original line endings in your working directory

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git commit -m "some commit"

[lost-data 362ded1] some commit

1 file changed, 1 insertion(+)

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git switch more-important-task

Switched to branch 'more-important-task'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (more-important-task)

$ git log -3

commit 0c9218210d19627127ffaac35bfc0b77ba05f90f (HEAD -> more-important-task)

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sun Oct 3 20:27:49 2021 +0500

new styles added

commit 8dbe5fd2710d1a1206aa3f097ba2b80d696298a4

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sun Oct 3 16:12:46 2021 +0500

commit

commit 7e2d8d05f4f0521db67bb1fddbf769fbeae373ef (origin/master, master, lost-commits, important-task)

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sat Oct 2 20:19:46 2021 +0500

.gitignore file added and removed bin/

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (more-important-task)

$ git switch master

Switched to branch 'master'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (master)

$ git switch lost-data

Switched to branch 'lost-data'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git cherry-pick 0c92

Auto-merging src/index.html

CONFLICT (content): Merge conflict in src/index.html

error: could not apply 0c92182... new styles added

hint: after resolving the conflicts, mark the corrected paths

hint: with 'git add <paths>' or 'git rm <paths>'

hint: and commit the result with 'git commit'

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data|CHERRY-PICKING)

$ git status

On branch lost-data

You are currently cherry-picking commit 0c92182.

(fix conflicts and 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)

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: index.html

no changes added to commit (use "git add" and/or "git commit -a")

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data|CHERRY-PICKING)

$ nano index.html

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data|CHERRY-PICKING)

$ git status

On branch lost-data

You are currently cherry-picking commit 0c92182.

(fix conflicts and 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)

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: index.html

no changes added to commit (use "git add" and/or "git commit -a")

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data|CHERRY-PICKING)

$ git add .

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data|CHERRY-PICKING)

$ git cherry-pick --continue

hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/uhase/OneDrive/Desktop/newgitconcepts/.git/COMMIT\_EDITMSG to DOS format...

dos2unix: converting file C:/Users/uhase/OneDrive/Desktop/newgitconcepts/.git/COMMIT\_EDITMSG to Unix format...

[lost-data 6e91af0] new styles added

Date: Sun Oct 3 20:27:49 2021 +0500

1 file changed, 9 insertions(+)

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$ git log -3

commit 6e91af0a5428d4ade8103277b355a6d58db3d80b (HEAD -> lost-data)

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sun Oct 3 20:27:49 2021 +0500

new styles added

commit 362ded12d03d203a43df131dd5814f1cf1f6185d

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sun Oct 3 20:32:19 2021 +0500

some commit

commit 4b51b15c207d9a5e241ede87d548ee6d3797aa8f

Author: Muhammad Haseeb <uhaseeb731@gmail.com>

Date: Sun Oct 3 18:47:56 2021 +0500

new txt files

uhase@DESKTOP-H6Q0R0S MINGW64 ~/OneDrive/Desktop/newgitconcepts/src (lost-data)

$