Cherry-Picking Commits Between Branches - Task 7

What is cherry-picking?

Cherry-picking is the process of applying a commit from one branch to another. It's a useful tool for applying specific changes without merging the entire branch. It helps maintain a clean and focused repository history.

➢ **Creating a file:**

```
PS C:\Users\karur> git init cherry-pick-demo
Initialized empty Git repository in C:/Users/karur/cherry-pick-demo/.git/
PS C:\Users\karur> cd cherry-pick-demo
PS C:\Users\karur\cherry-pick-demo> echo "this is line1" > file.txt
PS C:\Users\karur\cherry-pick-demo> git add file.txt
PS C:\Users\karur\cherry-pick-demo> git commit -m "Initial commiy"
[master (root-commit) e4a5f6a] Initial commiy
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file.txt
```

➢ **Creating 2 branches:**

```
PS C:\Users\karur\cherry-pick-demo> git checkout -b branchA
Switched to a new branch 'branchA'
PS C:\Users\karur\cherry-pick-demo> echo "change from branchA" >> file.txt
PS C:\Users\karur\cherry-pick-demo> git commit -am "Commit A1"
[branchA ed2a543] Commit A1
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\karur\cherry-pick-demo> git checkout master
Switched to branch 'master'
PS C:\Users\karur\cherry-pick-demo> git checkout -b branchB
Switched to a new branch 'branchB'
PS C:\Users\karur\cherry-pick-demo> echo "change from branchB" >> file.txt
PS C:\Users\karur\cherry-pick-demo> git commit -am "Commit B1"
[branchB 04d5758] Commit B1
 1 file changed, 0 insertions(+), 0 deletions(-)
```

➢ **Finding the commit hash from branchA:**

```
PS C:\Users\karur\cherry-pick-demo> git log branchA
commit ed2a543178321e581ae2a428eff2bcd20b89605d (branchA)
Author: Karunya <rvrkaruv@gmail.com>
Date:   Fri Apr 11 11:52:47 2025 +0530

    Commit A1

commit e4a5f6a68d3fd13b2da48cbfe402acb9c5236296 (master)
Author: Karunya <rvrkaruv@gmail.com>
Date:   Fri Apr 11 11:51:36 2025 +0530

    Initial commiy
```

➢ **Cherry-picking into branchB:**

```
PS C:\Users\karur\cherry-pick-demo> git checkout branchB
Already on 'branchB'
PS C:\Users\karur\cherry-pick-demo> git cherry-pick ed2a543178321e581ae2a428eff2bcd20b89605d
warning: Cannot merge binary files: file.txt (HEAD vs. ed2a543 (Commit A1))
Auto-merging file.txt
CONFLICT (content): Merge conflict in file.txt
error: could not apply ed2a543... Commit A1
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"
```

➢ **After resolving conflict:**

```
PS C:\Users\karur\cherry-pick-demo> git add file.txt
PS C:\Users\karur\cherry-pick-demo> git cherry-pick --continue
hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/karur/cherry-pick-demo/.git/CO
MMIT_EDITMSG to DOS format...
dos2unix: converting file C:/Users/karur/cherry-pick-demo/.git/COMMIT_EDITMSG to Unix format...
[branchB 4e12460] this is the final version
 Date: Fri Apr 11 11:52:47 2025 +0530
 1 file changed, 0 insertions(+), 0 deletions(-)
```

➢ **Verifying the cherry-picked commit:**

```
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\karur\cherry-pick-demo> git log --oneline
4e12460 (HEAD -> branchB) this is the final version
04d5758 Commit B1
e4a5f6a (master) Initial commiy
PS C:\Users\karur\cherry-pick-demo>
```