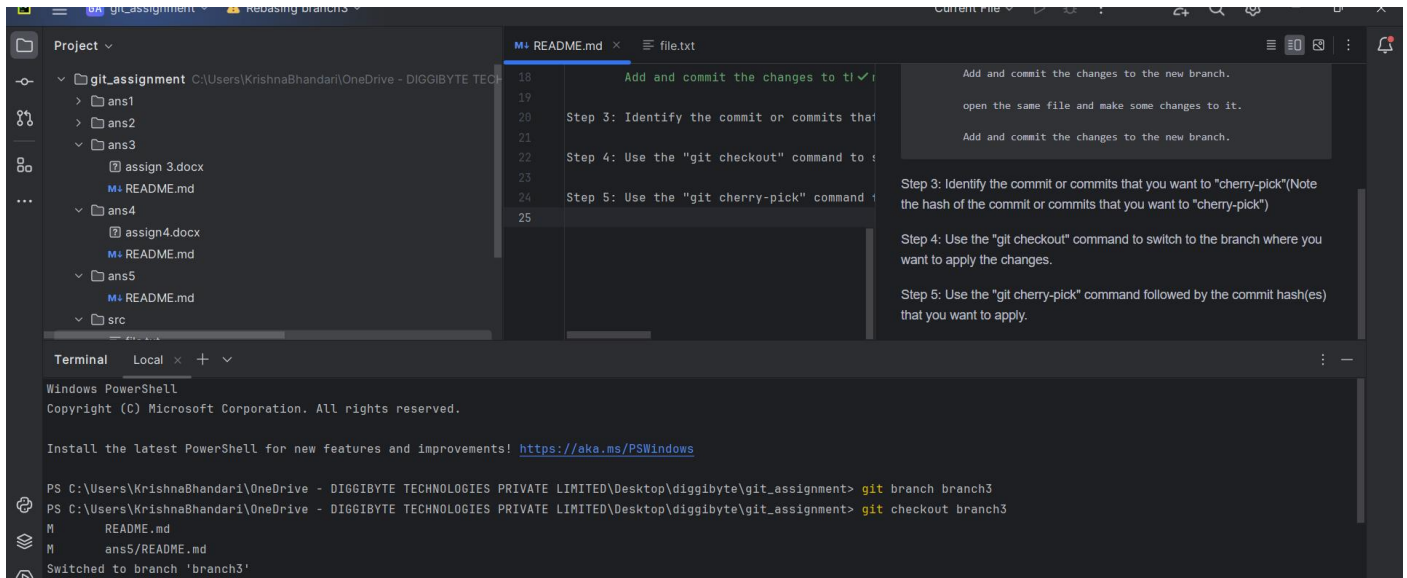


## Question 5

Step 1: Step 1: Create a feature branch.

Step 2: Switch to the new branch.



open the file and make some changes to it.

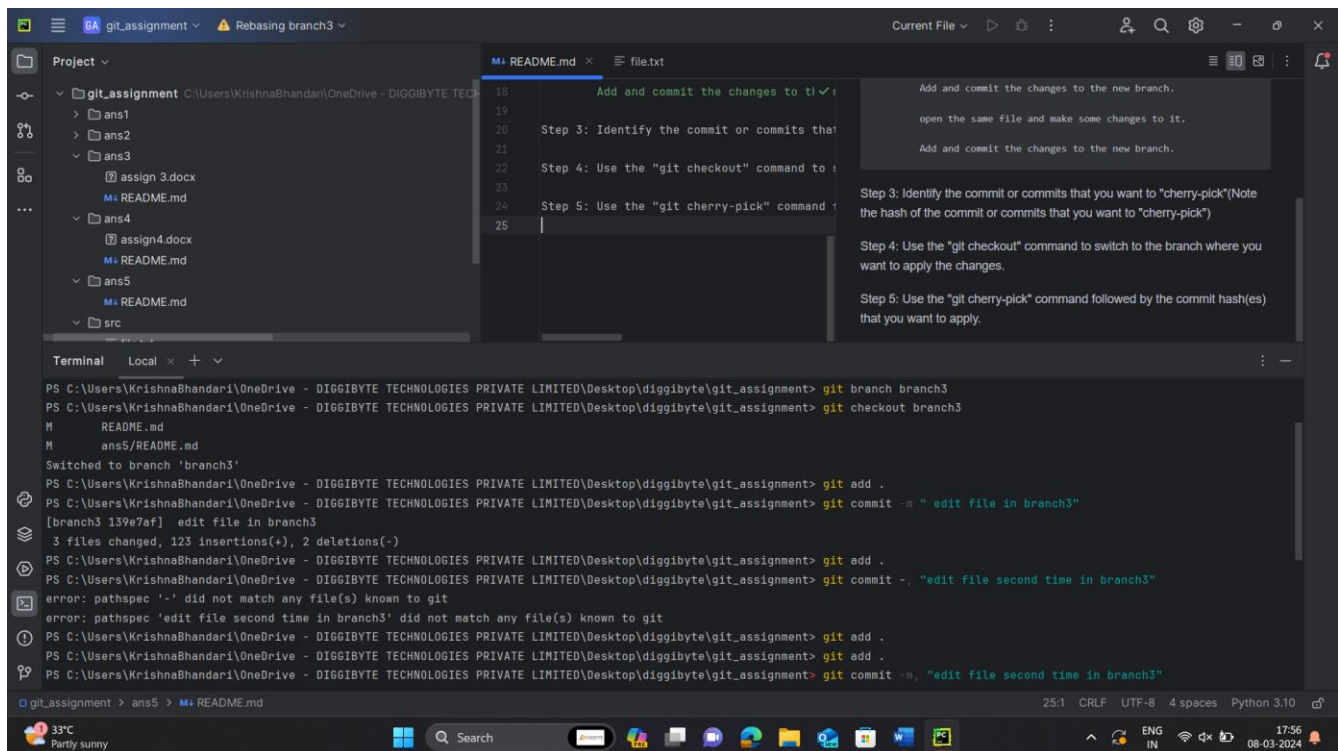
Add and commit the changes to the new branch.

open the same file and make some changes to it.

Add and commit the changes to the new branch.

open the same file and make some changes to it.

Add and commit the changes to the new branch.



Step 3: Use the "git log" command to view the commit history and identify the commit to which you want to reset.

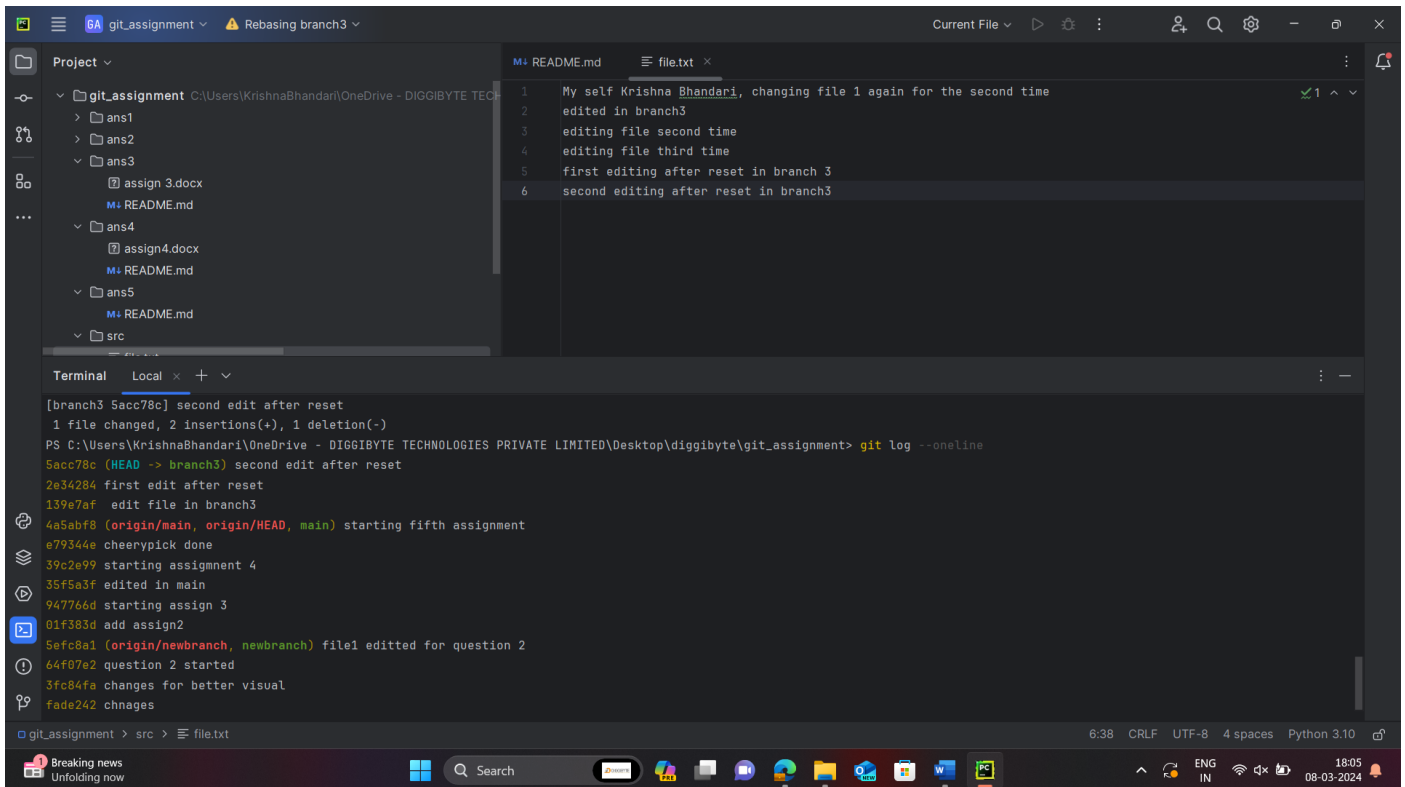
```
[branch3 548cbe2] edit file third time in branch3
1 file changed, 1 insertion(+)
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git log --oneline
548cbe2 (HEAD -> branch3) edit file third time in branch3
40cf2b5 edit file second time in branch3
139e7af edit file in branch3
4a5abf8 (origin/main, origin/HEAD, main) starting fifth assignment
e79344e cherry-pick done
39c2e99 starting assignment 4
35f5a3f edited in main
947766d starting assign 3
01f383d add assign2
5efc8a1 (origin/newbranch, newbranch) file1 edited for question 2
64f07e2 question 2 started
3fc84fa changes for better visual
fade242 chnages
```

Step 4: Use the "git reset" command followed by the desired reset type and the commit hash

Step 5: Verify that the reset was successful by using the "git log" command again.

```
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git reset 139e7af
Unstaged changes after reset:
M   src/file.txt
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git log --oneline
139e7af (HEAD -> branch3) edit file in branch3
4a5abf8 (origin/main, origin/HEAD, main) starting fifth assignment
e79344e cherry-pick done
39c2e99 starting assignment 4
35f5a3f edited in main
947766d starting assign 3
01f383d add assign2
```

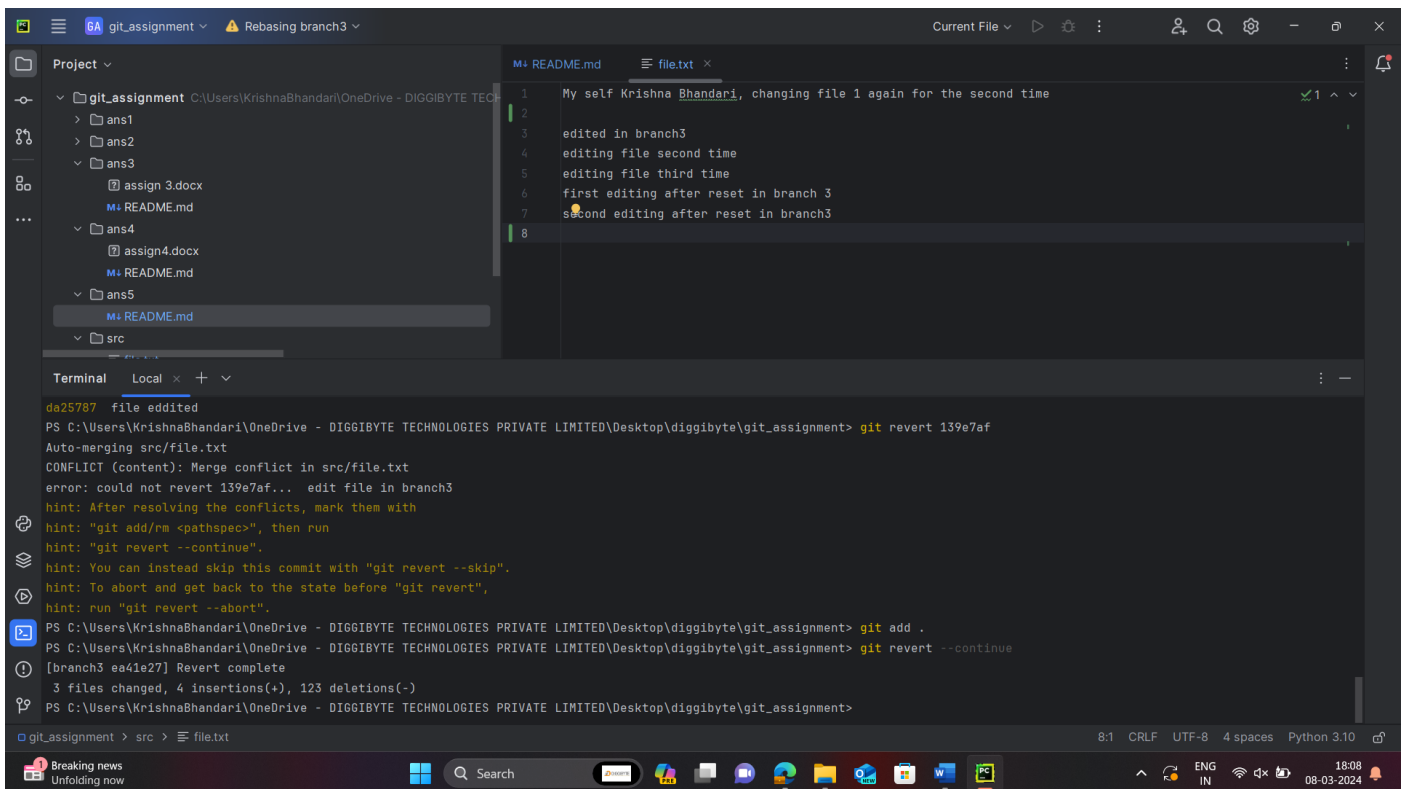
Step 6: Use the "git log" command to view the commit history and identify the commit that you want to reverse.



The screenshot shows the Visual Studio Code interface with a project named 'git\_assignment'. The file explorer on the left shows a directory structure with folders 'ans1' through 'ans5' and a 'src' folder. The main editor shows 'file.txt' with 6 lines of text. The terminal at the bottom displays the output of the 'git log --oneline' command, showing a list of commits from '5acc78c' to 'fade242'. The commit '139e7af' is highlighted, which corresponds to the 'second edit after reset'.

```
[branch3 5acc78c] second edit after reset
1 file changed, 2 insertions(+), 1 deletion(-)
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git log --oneline
5acc78c (HEAD -> branch3) second edit after reset
2e34284 first edit after reset
139e7af edit file in branch3
4a5abf8 (origin/main, origin/HEAD, main) starting fifth assignment
e79344e cheerypick done
39c2e99 starting assignment 4
35f5a3f edited in main
947766d starting assign 3
01f383d add assign2
5efc8a1 (origin/newbranch, newbranch) file1 edited for question 2
64f07e2 question 2 started
3fc84fa changes for better visual
fade242 chnages
```

Step 7: Use the "git revert" command followed by the commit hash or reference to which you want to revert.  
(Hint: git revert <commit hash>)



The screenshot shows the Visual Studio Code interface after running the 'git revert 139e7af' command. The terminal displays the command output, including a merge conflict in 'src/file.txt'. The conflict is resolved by running 'git add .' and 'git revert --continue'. The final output shows that the revert was successful, with 3 files changed and 4 insertions.

```
da25787 file edited
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git revert 139e7af
Auto-merging src/file.txt
CONFLICT (content): Merge conflict in src/file.txt
error: could not revert 139e7af... edit file in branch3
hint: After resolving the conflicts, mark them with
hint: "git add/rm <paths>", then run
hint: "git revert --continue".
hint: You can instead skip this commit with "git revert --skip".
hint: To abort and get back to the state before "git revert",
hint: run "git revert --abort".
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git add .
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git revert --continue
[branch3 ea41e27] Revert complete
3 files changed, 4 insertions(+), 123 deletions(-)
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment>
```

```
Revert "edit file in branch3"

This reverts commit 139e7af78c9972d24ce07a69c5da24201d38da01.

# Conflicts:
#   src/file.txt

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch branch3
# Last commands done (2 commands done):
#   pick fcf4016 file 2 edit
#   pick c405752 ignore idea
.git/COMMIT_EDITMSG [unix] (18:07 08/03/2024) 1,1 Top
-- INSERT --
```

Step 8: Verify that the revert was successful by using the "git log" command again.

```
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git revert --continue
[branch3 ea41e27] Revert complete
3 files changed, 4 insertions(+), 123 deletions(-)
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git log --online
fatal: unrecognized argument: --online
PS C:\Users\KrishnaBhandari\OneDrive - DIGGIBYTE TECHNOLOGIES PRIVATE LIMITED\Desktop\diggibyte\git_assignment> git log --oneline
ea41e27 (HEAD -> branch3) Revert complete
5acc78c second edit after reset
2e34284 first edit after reset
139e7af edit file in branch3
4a5abf8 (origin/main, origin/HEAD, main) starting fifth assignment
e79344e cheerypick done
39c2e99 starting assignment 4
35f5a3f edited in main
947766d starting assign 3
01f383d add assign2
```

Note: Identify the difference between git log after git reset and git revert.