Assignment2

Submitted

by

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Level 2: Stashing and Resetting

You have been hired by the client ABC Systems as a Developer, where in you are required to manage the source in a Git Repository. Client would like to assess your hands on knowledge and skills. Thus, Client has requested you to demonstrate the following actions using Git and GitHub.

You are requested to execute following task:

- Initialize any folder as Git Repository
- Create a file as file1.java and file2.java
- Add to the staging area and do a commit.
- Now add file3.java
- Create a Stash for file3.java
- Verify the stash list that changes have been stored temporarily as Stash.
- Apply the stash back to the branch
- Clear the Stash
- Add file3.java to the staging area
- Commit file3.java to the repository
- Do a soft reset to 1st commit.
- Revert the reset by doing a commit.
- Do a mixed reset to 1st commit.
- Revert the reset by adding the files to staging area and commit.
- Do a hard reset.
- Verify that changes have been removed from the system.

Step1: Initialize any folder as Git Repository.

- To create a folder as Git repo.
- \$git init

Step2: - Create a file as file1.java and file2.java.

- To create a file need to open VScode editor with help of "\$code."
- Once open VScode create both file named with **file1.java** and **file2.java**.

Step3: - Add to the staging area and do a commit.

- Pass the command **\$git add**.
- After that give commit command **\$git commit -m** "this is first commit"

```
G:\training\assignment\assignment2L2>git init
Initialized empty Git repository in G:/training/assignment2L2/.git/
G:\training\assignment\assignment2L2>code .

G:\training\assignment\assignment2L2>git status
On branch master

No commits yet

Untracked files:
    (use "git add <file>..." to include in what will be committed)
        file1.java
        file2.java

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

G:\training\assignment\assignment2L2>git add .

G:\training\assignment\assignment2L2>git commit -m "this is first commit"

[master (root-commit) b7043a5] this is first commit
2 files changed, 3 insertions(+)
        create mode 100644 file1.java
        create mode 100644 file2.java

G:\training\assignment\assignment2L2>git status
On branch master
nothing to commit, working tree clean

G:\training\assignment\assignment2\assignment2L2>
```

Step4: - Now add file3.java.

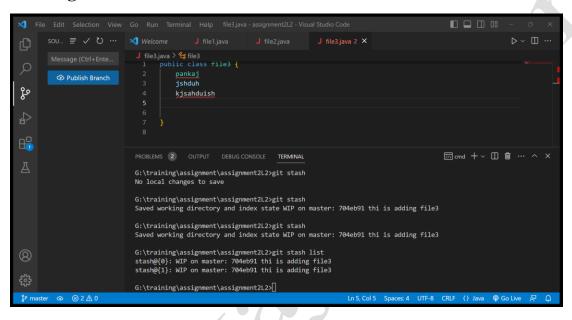
- Open the VScode editor and create the new folder.
- \$code.
- Create a new file3.java.

Step5: - Create a Stash for file3.java.

• Run the command \$git stash, This will create a stash with the changes made to file3.java.

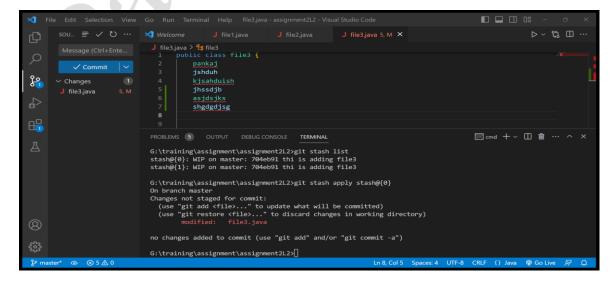
Step 6: Verify the stash list that changes have been stored temporarily as Stash.

• \$git stash list



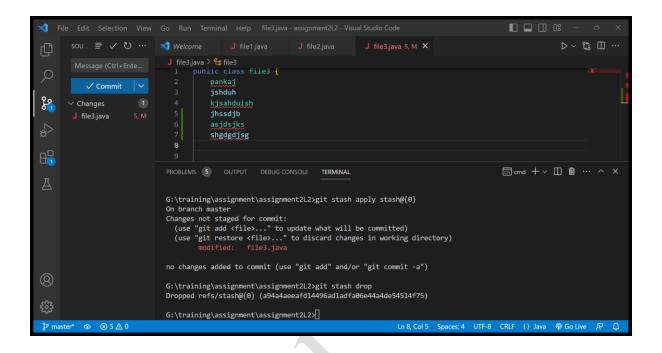
Step 7: Apply the stash back to the branch

• Run the command \$git stash apply stash@{0}. This will apply the changes stored in the first stash to the current branch.



Step 8: Clear the Stash

 Run the command "git stash drop". This will delete the top stash from the stash list

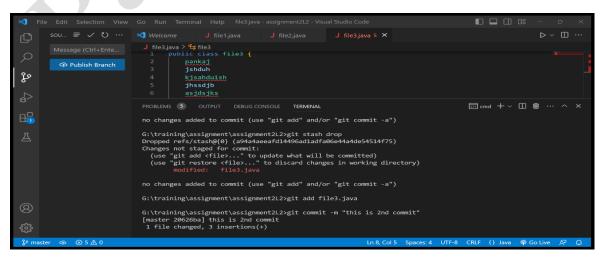


Step 9: Add file3.java to the staging area

• Run the command **git add file3.java**. This will add file3.java to the staging area.

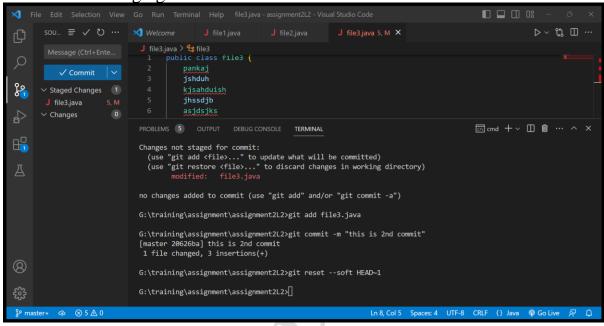
Step 10: Commit file3.java to the repository.

• Run the command **git commit -m "Add file3.java"**. This will commit the changes made to file3.java to the repository.



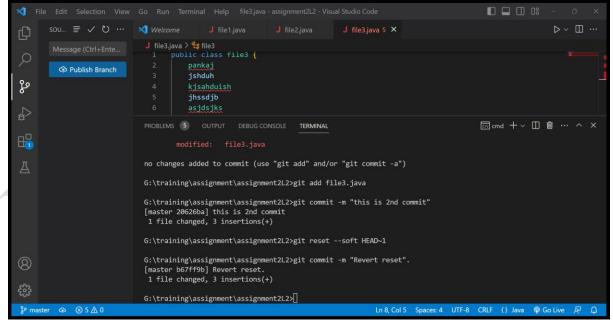
Step 11: Do a soft reset to 1st commit.

• Run the command **git reset --soft HEAD~1**. This will reset the current branch to the previous commit, keeping the changes made in the latest commit in the staging area.



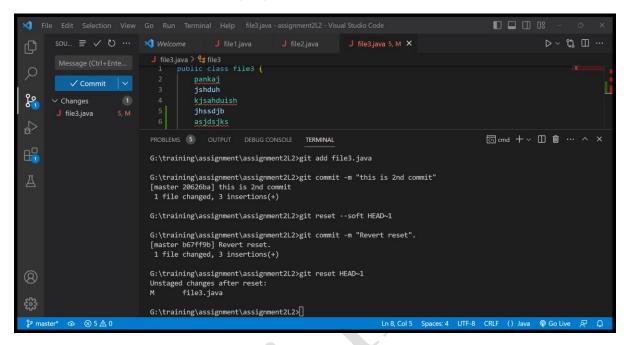
Step12: Revert the reset by doing a commit.

• Run the command **git commit -m "Revert reset".** This will create a new commit that reverts the previous reset.



Step13: Do a mixed reset to 1st commit.

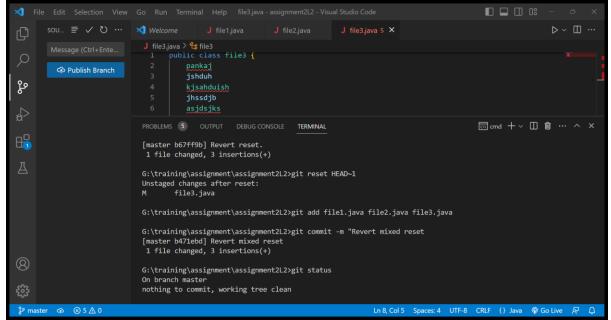
• Run the command \$git reset HEAD~1. This will reset the current branch to the previous commit, removing the changes made in the latest commit from the staging area.



Step14: Revert the reset by adding the files to staging area and commit.

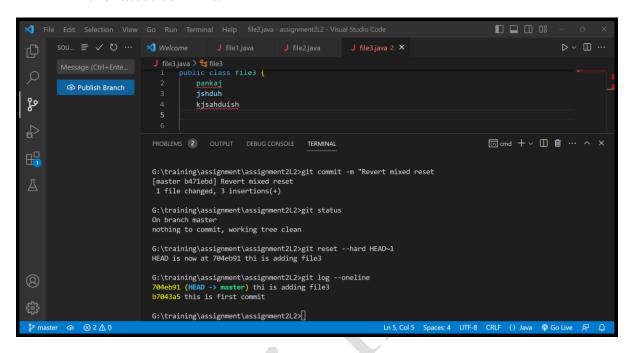
• Run the command **\$git add file1.java file2.java file3.java**. This will add the three files to the staging area.

• Run the command **\$git commit -m ''Revert mixed reset''.** This will create a new commit that reverts the previous mixed reset.



Step15: Do a hard reset.

• Run the command \$git reset --hard HEAD~1. This will reset the current branch to the previous commit, discarding all changes made in the latest commit.



Step16:- Verify that changes have been removed from the system.

• Run the command **\$dir**. This will list all the files in the current directory, and you should see that file3.java is no longer there.

