GIT AND GITHUB MODULE

SUBMITTED BY – ADESH ARUN ADHAV

SUBMITTED TO - VIKUL SIR

BATCH NO.- SA2409031

DATE -18/11/2024

L1 - Create Local git repository and demonstrate all git reset options and revert. Compare the differences

Step1- create the git repository

- Go to git
- Start the git(git init)
- Create file(touch file name)
- Track the file(git add file name)
- Commit the file(git commit -m "name to the commit")

STEP 2- GIT REVERT

Create some file tracked them and also commit them.
 Revert the file(git revert commit file id)
 (it will undo the previous changes that are made to file without deleting it. We can retrive the file)

STEP 3- GIT RESET

Git reset commit id – soft (it delete the commit but file are there) Git reset commit id –hard (it will delete commit as well as file also)

DIFFRENCE

GIT RESET-

Git reset is used to undo changes in the local repository by moving the branch pointer to a previous commit, effectively discarding any commits made after that point. It can be used to unstage files or remove commits from the local repository.

Soft: Moves the head pointer to the specified commit but keeps the changes in the staging area.

Mixed: Moves the HEAD pointer and unstages the changes, keeping them in the working directory.

Hard: Moves the HEAD pointer and discards all changes in the working directory.

GIT REVERT-

Git revert is used to undo changes that have been committed to the repository by creating a new commit that undoes the changes made by the specific commit. This is a safer way to undo changes, especially in a shared or public branch, as it preserves the commit history. **SUMMARY-**

- Git reset: Used to undo changes in the local repository by moving the branch pointer to a
 previous commit. It can unstage files or remove commits. Suitable for private branches.
- **Git revert**: Used to undo changes by creating a new commit that undoes the changes made by a specific commit. Suitable for public branches as it preserves the commit history

```
AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ git not

MeninistratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ git remote add origin https://github.com/adesh848/adeshgit.git

MeninistratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ touch file.

AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ gir add file.

AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ gir add file.

AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ gir add file.

AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ gir add file.

AdministratoriaLAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ git config --global user.name "youifexample.com"

git config --global user.name "your Name"

*** Please tell me who you are.

Run

git config --global user.name "your Name"

*** set your account's default identity.

Onit --global to set the identity only in this repository.

Onit --global user.name "address (got 'administrator@LAPTOP-550JAQVO.(none)')

Administrator@LAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ git config --global user.name "addsh"

Administrator@LAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ git config --global user.name "adesh"

Administrator@LAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)

$ folder file

Administrator@LAPTOP-550JAQVO MINGWG4 -/Desktop/New folder (master)
```

```
MNMCWA4/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/PLMSWA/P
```

```
[master f0e7b9b] Revert "c3"

1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 file3
Administrator@LAPTOP-5S0JAQVO MINGW64 -/Desktop/New folder (master)
5 ls
file1 file2 file4
Administrator@LAPTOP-5S0JAQVO MINGW64 -/Desktop/New folder (master)
5
```

```
Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

file1 file2 file3 file4

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

g it log -oneline
297fblc (HEAD -> master) Reapply "c3"

f0x7950 Revert "c3"

137e55a c4
e8926e0 c3
dfce9504 c2

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

5 git reset e8926e0 --soft

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

5 git log --oneline
e8926e0 (HEAD -> master) c3
dfce9504 c2

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

5 git log --oneline
e8926e0 (HEAD -> master) c3
dfce9504 c2

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

5 git log --oneline
e8926e0 (HEAD -> master) c3
dfce9504 c2

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)

5 git log --oneline
e8926e0 (HEAD -> master) c3
dfce9504 c2

Administrator@LAPTOP-5SOJAQVO MINGW64 -/Desktop/New folder (master)
```

```
Administrator@LAPTOP-SSD2AQVO MINGW64 -/Desktop/New folder (master)
$ 1s
$ 1s
$ 1s
$ 1s
$ 1s
$ 1s 1s
$
```