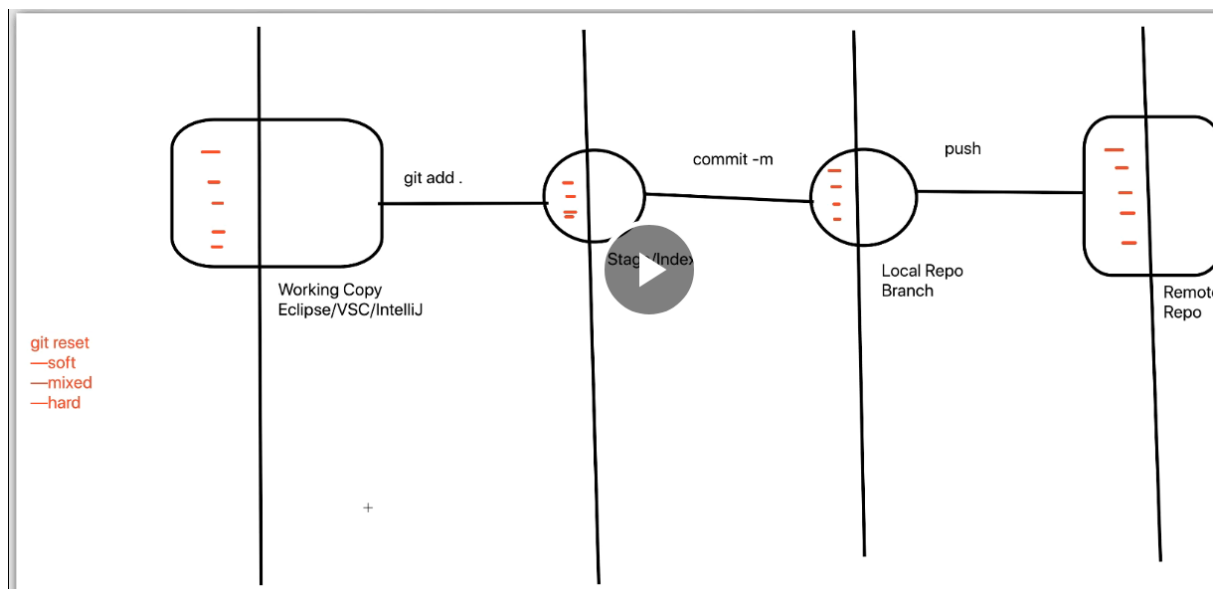


## Undoing commits using Git Reset (Soft/Mixed/Hard) and forced git push



Note-

Untracked files will not have any hash coded commit number.

## Code added-

The screenshot shows an IDE with the Package Explorer on the left and the TestPage.java file open on the right.

**Package Explorer:**

- GitHubPractice [GitHubPractice master]
  - JRE System Library [JavaSE-11]
  - src
    - Pages
      - CartPage.java
      - CherryPage.java
      - ClassicPage.java
      - Feature1.java
      - HomePage.java
      - LoginPage.java
      - RegPage.java
      - RegPageActions.java
      - SearchPage.java
      - TestPage.java
      - helloofetch.txt

**TestPage.java:**

```

1 package Pages;
2
3 public class TestPage {
4
5     public static void main(String[] args) {
6         String n="naveen";
7         int salary=12;
8     }
9
10 }
11

```

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    src/Pages/TestPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

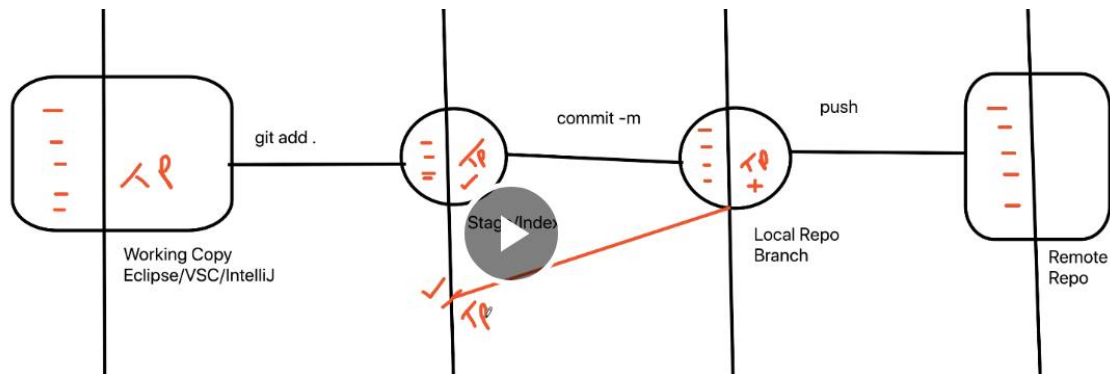
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "test page code added"
[master ff3a65e] test page code added
1 file changed, 10 insertions(+)
create mode 100644 src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
ff3a65e (HEAD -> master) test page code added
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
1ce0f6b added cart feature page
23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
672c0ec Create CartPage.java
45cad7d git cherry pick third commit
ac11998 second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
2a8c1e0 (tag: v2.0) feature 2 is added
9825329 (tag: v1.0) feature 1 is added
ca66c6e Merge pull request #1 from karanAtreya1986/RP
2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

To remove the code from local repo and bring it back to stage/index use soft reset-



We can use "commit id" instead of "HEAD~".

We can reset any commit which is there in local repo.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --soft HEAD^

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

Files moved to the area where it has to be again committed.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "test page number 2"
[master a46de41] test page number 2
1 file changed, 10 insertions(+)
create mode 100644 src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

Last commit which was moved from local repo to stage is gone-

We have the latest commit which we did.

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
a46de41 (HEAD -> master) test page number 2
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
1ce0f6b added cart feature page
23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
672c0ec Create CartPage.java
45cad7d git cherry pick third commit
ac11998 second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
2a8c1e0 (tag: v2.0) feature 2 is added
9825329 (tag: v1.0) feature 1 is added
ca66c6e Merge pull request #1 from karanAtreya1986/RP
2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$

```

With commit id not working-

Maybe we are not giving complete commit id.

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --soft a46de41

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
a46de41 (HEAD -> master) test page number 2
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
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23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
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45cad7d git cherry pick third commit
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89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

```

## Commit gone-

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --soft HEAD^

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
b951744 (HEAD -> master) c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
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0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$

```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --soft HEAD^

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
b951744 (HEAD -> master) c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
1ce0f6b added cart feature page
23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
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fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
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87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "test page number 3"
[master 3cb016e] test page number 3
 1 file changed, 10 insertions(+)
 create mode 100644 src/Pages/TestPage.java

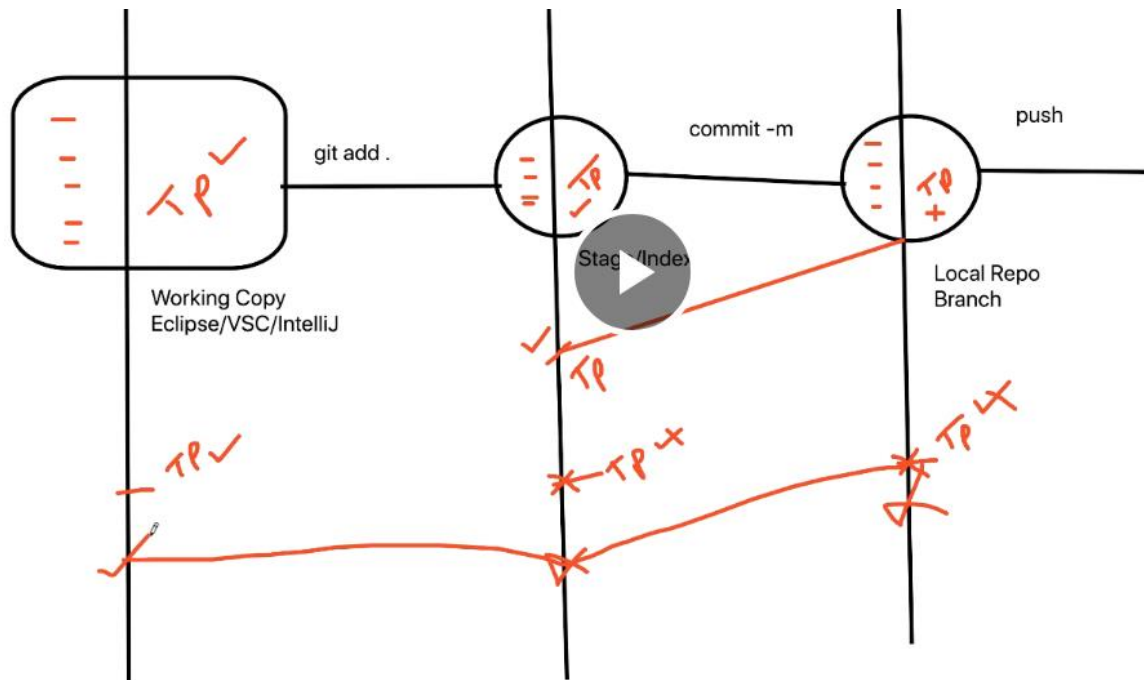
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
3cb016e (HEAD -> master) test page number 3
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
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672c0ec Create CartPage.java
45cad7d git cherry pick third commit
ac11998 second cherry commit
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fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
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9825329 (tag: v1.0) feature 1 is added
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2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ ~

```

## Mixed reset-

It will remove files from local repo, stage/index area and will be back in untracked region.



```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
3cb016e (HEAD -> master) test page number 3
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
1ce0f6b added cart feature page
23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
672c0ec Create CartPage.java
45cad7d git cherry pick third commit
ac11998 second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
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0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git rest --mixed HEAD^
git: 'rest' is not a git command. See 'git --help'.

The most similar commands are
    restore
    reset

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --mixed HEAD^

```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    src/Pages/TestPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --online
fatal: unrecognized argument: --online

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
b951744 (HEAD -> master) c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
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672c0ec Create CartPage.java
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ac11998 second cherry commit
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c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
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89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

## Hard reset-

This will remove the file from working copy, stage/index and local repo.

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/Pages/TestPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "hard commit"
[master d99fba6] hard commit
1 file changed, 10 insertions(+)
create mode 100644 src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
d99fba6 (HEAD -> master) hard commit
b951744 c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
cb0df58 updated classic page java file after merge conflict
5d0979c added classic page
fed8ed5 Create ClassicPage.java
1ce0f6b added cart feature page
23fb8aa Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
672c0ec Create CartPage.java
45cad7d git cherry pick third commit
ac11998 second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
2a8c1e0 (tag: v2.0) feature 2 is added
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2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

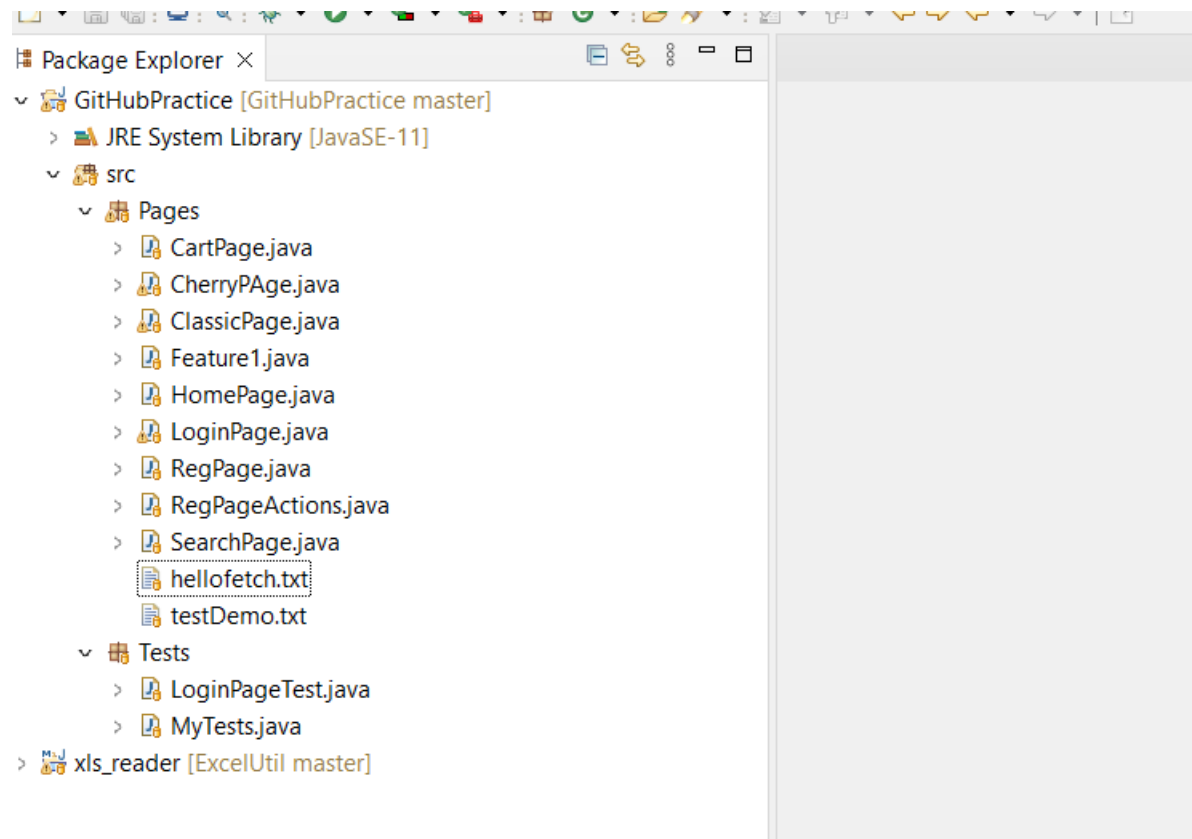
```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --hard HEAD^
HEAD is now at b951744 c4

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

File deleted-



```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
b951744 (HEAD -> master) c4
82086bb c3
bda9009 c2
296e227 c1
cdf2a45 (origin/master) trying some scenarios
76d8c9d updated classic page after merge conflict
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2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/updated/deleted files
9fe238f first commit

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$

```

All clean bowled so nothing to commit-

```

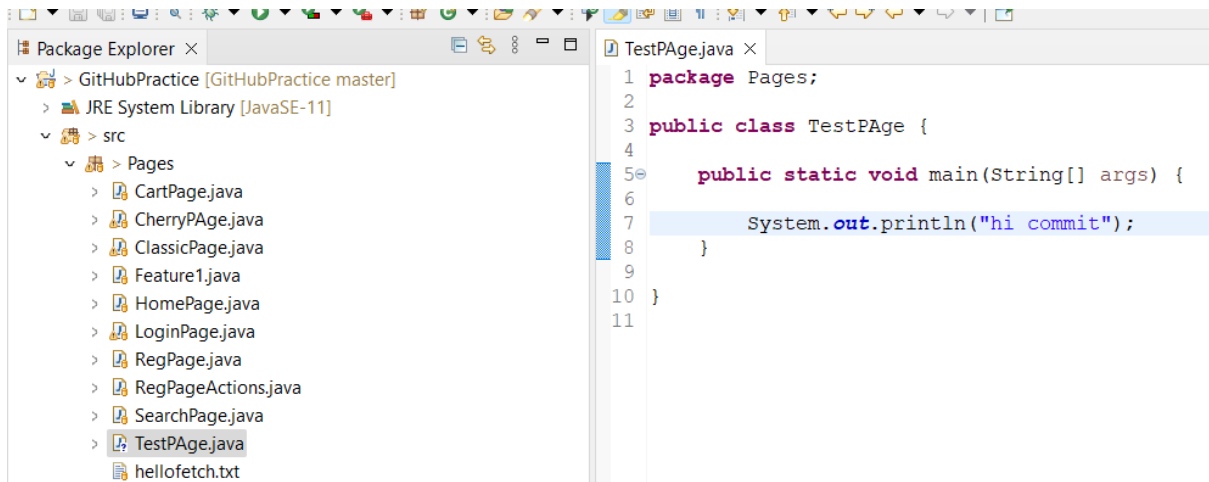
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
nothing to commit, working tree clean

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

Lets see if hard reset will delete from remote repo-

Code added-



```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/Pages/TestPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "final and hard commit check on remote"
[master bce02a4] final and hard commit check on remote
 1 file changed, 10 insertions(+)
 create mode 100644 src/Pages/TestPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
nothing to commit, working tree clean

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

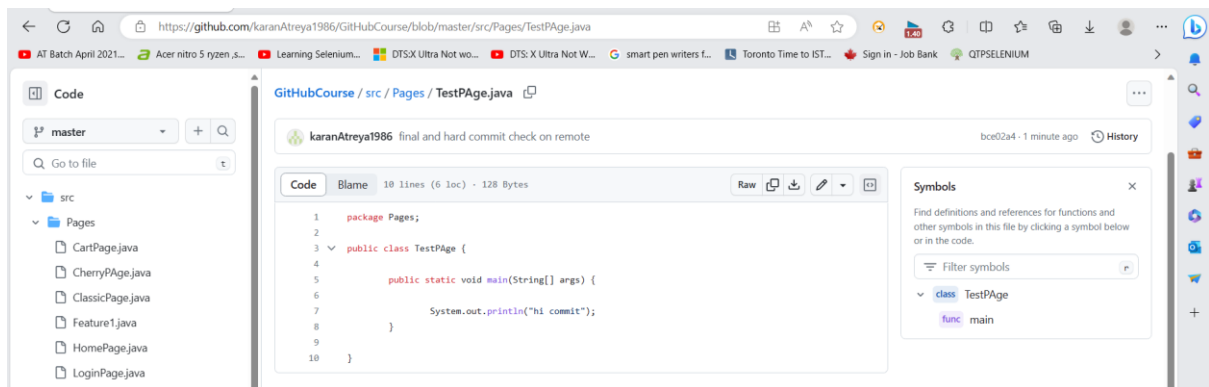
```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin master
Enumerating objects: 30, done.
Counting objects: 100% (30/30), done.
Delta compression using up to 12 threads
Compressing objects: 100% (25/25), done.
Writing objects: 100% (25/25), 2.23 KiB | 207.00 KiB/s, done.
Total 25 (delta 8), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (8/8), completed with 2 local objects.
To https://github.com/karanAtreya1986/GitHubCourse.git
   cdf2a45..bce02a4  master -> master

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$

```

## Refresh and code present-



```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git reset --hard HEAD^
HEAD is now at b951744 c4

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
nothing to commit, working tree clean

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin master
To https://github.com/karanAtreya1986/GitHubCourse.git
 ! [rejected]        master -> master (non-fast-forward)
error: failed to push some refs to 'https://github.com/karanAtreya1986/GitHubCourse.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

## Force push to origin remote branches-

This will push all the changes from local repo to remote repo including all deletions.

This is the only way to remove the commit from remote repo.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push -f origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/karanAtreya1986/GitHubCourse.git
 + bce02a4...b951744 master -> master (forced update)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

Refresh gitlab and we get page not found error-

