**Scenario 1**

git3.js

git3.js

git3.js

git3.js

**Working Directory**

**Staging**

**Local Repository**

**Git Hub 🡺 Cloud**

10 lines

10 lines

10 lines

10 lines

5 lines added

5 lines added

* working directory –ko ---- same as last commit karna hai
* command 🡺 git checkout HEAD filename
* HEAD 🡺 means last jo commit hai
* filename 🡺 jo bhi hai wo likho
* Ye process se humme

W.D. ===> staging ===> local repo ===> cloud

10+5 ===> 10+5 ===> 10 ==========> 10

* Ye process se humme

W.D. ===> staging ===> local repo ===> cloud

10 ===> 10 =====> 10 ==========> 10

* Start the process with git init
* Then 🡺 git add . 🡺 to put the file in staging
* Now we don’t want process further with done changes
* Want the W.D. same as before without deleting
* Write 🡺 git checkout HEAD filename
* W.D. will be same as before that new 5 lines added will deleted from W.D.

Yaha se 5 lines hatana hai

**Scenario 2**

git3.js

git3.js

git3.js

git3.js

**Working Directory**

**Staging**

**Local Repository**

**Git Hub 🡺 Cloud**

10 lines

10 lines

10 lines

10 lines

5 lines added

5 lines added

* staging same as last commit
* unstage karna hai
* command 🡺 git reset HEAD filename
* HEAD 🡺 means last jo commit hai
* filename 🡺 jo bhi hai wo likho

W.D. ==🡺 staging 🡺 local repo 🡺cloud

10+5 ==🡺 10+5 =🡺 10 === 🡺 10

* Esse hum niche jaisa karna hai

W.D. ==🡺 staging 🡺 local repo 🡺cloud

10+5 ==🡺 10 ===🡺 10 === 🡺 10

* Start the process with git init
* Then 🡺 git add . 🡺 to put the file in staging
* Now we don’t want process further with done changes
* Want to unstage the process
* Write 🡺 git reset HEAD filename
* Changes will be still present in W.D. , as we have done staging we want to unstage it.
* See the changes with git diff
* Will see the green line on the left side of the unstage code.
* We will get following message on unstage

Unstaged changes after reset:

M git3.js

Yaha se 5 lines hatana hai

**Scenario 3**

git3.js

git3.js

git3.js

git3.js

**Working Directory**

**Staging**

**Local Repository**

**Git Hub 🡺 Cloud**

10 lines

10 lines

10 lines

10 lines

5 lines added

5 lines added

* removing the commit to roll back to spect commit
* uncommit karna hai
* command 🡺 git reset 4586e3d
* yaha ye code git log karke aaya
* jo latest wala hai sabse niche uske first 7 letter and number
* filename 🡺 jo bhi hai wo likho

W.D. ==🡺 staging 🡺 local repo 🡺cloud

10+5 ==🡺 10+5 =🡺 10+5 === 🡺 10

* Esse hum niche jaisa karna hai

W.D. ==🡺 staging 🡺 local repo 🡺cloud

10+5 ==🡺 10+5 ==🡺 10 === 🡺 10

* Start the process with git init
* Then 🡺 git add . 🡺 git commit -m “added code” to put the file in local repo
* Now we don’t want process further with done changes
* Want to uncommit the process
* Write 🡺 git reset cf91dab
* Changes will be done in commit, we will uncommit the code, uncommit karne par humme niche wala msg aayega

Unstaged changes after reset:

M git3.js

5 lines added

Yaha se 5 lines hatana hai

Ab pura code merge hone ke baad hum new code par kaam karenge

Code merge hone ke baad branch both local and remote par se delete karenge

Emp PR raise karta hai, sab usse verify karte hai tab usse remote me merge karte hai

Remote repo par jane se pahale yaha bhi ek branch banega

Branch

Ye ess par hi code nai likhega, branch banake likhega

**Developer(100)**

**Developer(100)**

**Developer(100)**

**Developer(100)**

Rahul

Chinmay

Ram

1. There was already 100 line code on the git hub means on remote repo.
2. Rahul will pull the code from git hub(remote repo) to his computer(local repo)
3. Now he will make a branch in local repo to add more 30 lines in that code.
4. Now Rahul wants to push that code to git hub(remote repo) to main branch.
5. Remote repo will also make a branch of new code.
6. Then Rahul has to raise the PR, where every team member will check the code, it is proper or not.
7. When everyone in team pass the PR then, code will get merge in main branch
8. Then we will delete the branch on remote repo.
9. Now the new code available for everyone is of 130 lines.
10. Everyone now will work only on that 130 lines, so they will pull the code once again
11. Now Rahul will delete the branch on his local repo and will pull the new code.

Git branch 🡺 Konsi branch suru hai wo dikhega, or kitne branch suru hai wo dikhega, green me jo dikhega wo woi branch par hum kaam kar rai hai

Git branch branchname 🡺 new branch banana ke liye

Git checkout branchname 🡺 new branch me janne ke liye

Normal push ki process karo branch me, then remote repo par 🡺 new branch git hub par dikhega 🡺 compare & pull par click karo 🡺 PR raise karo 🡺 merge pull request 🡺 confirm merge 🡺 fir branch delete

New code

(100 +30)

**Branching**