Git and GIt Hub is Source code repository:

SVN is central repository, GIT is distributed Repository..

Install git in windows 10(google it)-->git-scm.com (AN official webiste and download) and install .exe (Continue with Yes till successfull extension)

To check git is successfully installed/not ..Right click and then u can see GIT GUI and GIT BASH options and also GIT GUI in search option...

Login to https://github.com/

User Name: sudhaknv@gmail.com

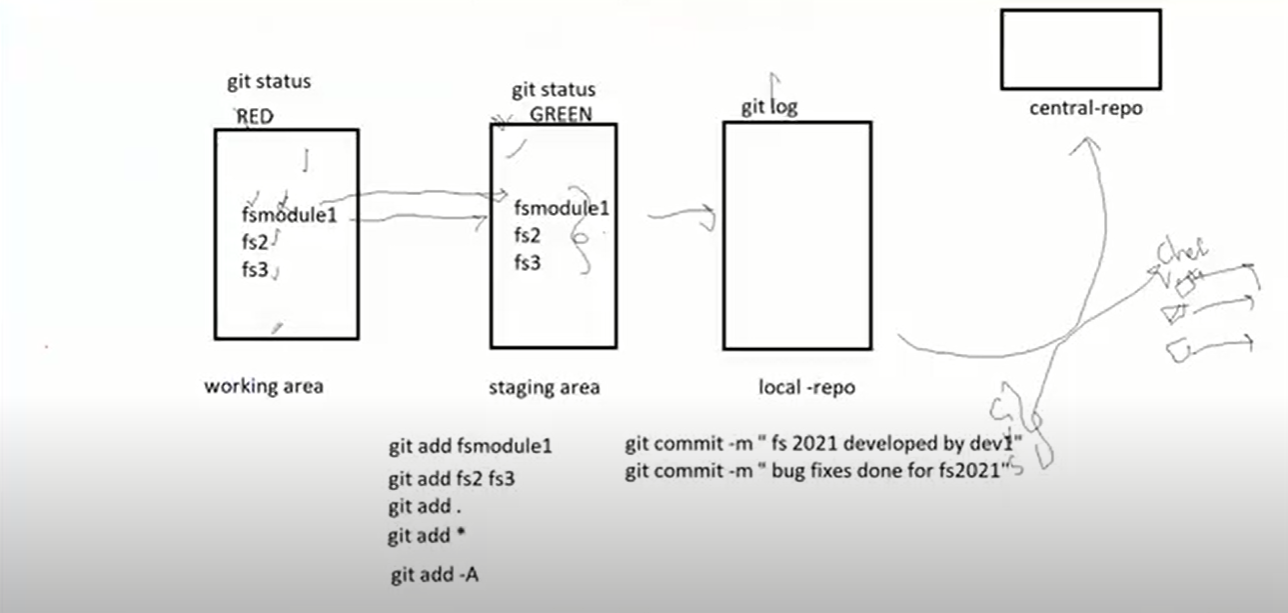
pwd-->Sudha@1217

create new repository in abouve url (public and private)

In private for storing our data they will 4$ per each repository(in Interview we can say i am working on multiple projects and we have apprx 120 repositories..No need to expose our company repositories names)

Code in private can be viewed only who have access and public all over world can be viewed...

create directory like gitpractise and some files inside it in ur lappy and switch to dir in cmd prmpt..

We have 3 stages in GIT before pushing files to Central Repository:

1)Working Area --->Once Git add file name is done it will deleted from working area and will be moved to Staging Area(Like MV)

2)Staging Area --->git commit -m “my first commit”

3)Local-Rep0--🡪git log or git log –oneline 0r git log –oneline –author=dev name

finally to central Repository

--🡪

Select file and right click and select GIT BASH HERE.. It will directly open GIT BASH with that directory

And execute following commands

To chec if repositories are in public or private…>All repositories will be in lock symbol…

Change Public to Private=🡺 Settings-🡪Bottom of page Danger Zone-🡪change VIsibitly

TO remove Repository-🡪Settings-🡪Bottom of page Danger Zone-🡪Delete this Repository

Mail IDS configuration-🡪Settings-🡪Notifications

Git clone repository URL to download repository to our working area

Git Stash

Gitstash is a temporary Memory which is available in GIT…Files which are available in staging area to store temporary purpose.

git stash list -🡪ls of files in git stash

git stash save “file name with msg”

git stash drop ---Will delete files from Stash Memory

pop & apply🡪pop will delete saved file in stash and will bring it to staging area, Apply wont delete but will bring a copy to staging area

git stash apply --🡪Latest pushed file will be retrieved to staging area…

git statsh apply stash@{4} --🡪To retieve latest copy

git stash pop -🡪will be retrived and also copy will be deleted from stash

git statsh pop stash@{4} –

Branching

Git branch branchname (casino) -🡪to create branch (From which master we are creating we will get those files to branch)

Git branch -🡪to check git branches created or not

Git checkout branchname -🡪to change from branch to branch

Merge

Developers will work on 3 differenet branches and those should be merged.

Go to branch which we want to merge

Git merge branch name -🡪It will be merged

Conflict Error

When two developers same code in two same file in different branches and while tryin to merge we will get conflict errors..

In master two files a and b are there. .Once u created branch then two dev started working on file a in master and branch… while merging a branch to master then we will get conflict issue…

We will sit with Dev team and resolve issue by checking which one should be there..

Then commit that latest file…

RESET

Once file moved from working🡪staging-🡪local repo.. If dev wants to modify some code he cant do any modifications do in staging or working area…He can modify only in local area..

We have to bring back from local repo to working area

Git reset file soft cid-🡪from local repo to staging area

Git reset head filename -🡪From staging to working area.

Git reset –mixed cid -🡪Direct from local repo to working area.

GIT TAG

Create multiple files and commit and enter git log –oneline..

Git tag firstrelease commitid -🡪to create tags

Git tag -🡪to check all tags

Git push origin tagname -🡪To reflect tags in UI we have to push them

Differnet between git clone git pull and git fetch

Almost above 3 will used to download our code…will check exact difference

Git clone -🡪to clone files (ex :master)

Git pull 🡪After some modifications done to files in master (instead of cloning again use git pull to get only updated changes) git pull =git merge + git fetch

Git fetch -🡪

We are the GIT HUB administrator:

Creating repos and giving collaboration access

Resolving conflicts

New to git

Providing KT on github sessions