#What is Source control mgmt. system?

SCM is provide controlling to version.

#What is source controlling prob?

Before GIT HUB we were copy and paste the latest code into another machine repeatedly for merging the code together and after that take the latest code from another machine into your local machine, to overcome this problem GIT HUB came into the market.

#EX: Just you are working with google.com you can create an account on GIT hub will provide one URL, that URL is your company name + GIT URL and they will provide specific space for google, multiple user can access this given URL.

#What is GIT? What is the difference between GIT and GIT HUB?

GIT is source control mgmt. system which is provide latest version of code and GIT is a kind of tool which provide multiple features push, pull, creating a multiple branch etc.

and GIT HUB is a website which provide multiple services like task mgmt., bug tracking and hosting services for GIT repo or central repo space for doing the multiple features push, pull, creating a multiple branches etc by through GIT HUB.

#How it works?

You must create one account in git hub and repo as well as and multiple user can push your code or check-in the code into GIT repo or central repo or into multiple branches after that git hub will create one latest version and multiple user can pull the code or check-out the code into your local system as well as.

#How many branches in GIT?

By default, master branch is created but you can create multiple branches based on your requirement.

#What is push and pull in GIT?

Push means you can push or check-in your code into GIT repo or central repo and pull means you can take the latest version of code into local system from central or GIT repo. But you must remember one thing in your mind each person should take the latest version of code when you pull or check-out the code.

#username-avigupta90

#email-avigupta.test90@gmail.com

#pwd-Cspl@2020

# tutorial-https://help.github.com/articles/adding-an-existing-project-to-github-using-the-command-line/

#Just login into Git hub and create repo.

-Enter repo name

-Enter repo description

-Make a private or public

-Click on create repo.

#Download Git bash

-Open git bash

-Copy the path of location where your file or project were created, or you want to push and pull that file or project.

-Paste the location of file or project in git bash terminal.

1-cmd: git init, git init cmd will create invisible. git folder in project or file location.

2-cmd: git remote add origin https://github.com/avigupta90/com.mvn.demo.git(project or file will be register or sync with central repo).

3-cmd: git add. (this cmd for added those file or project in git hub repo or central repo)

4-cmd: git commit -m "msg or text" (this cmd is use for comment to the latest code or that code you are going to push the code into central repo.)

Before doing below cmd you need to create SSh key :

**run this cmd: ssh-keygen**

Generating public/private rsa key pair.

Enter file in which to save the key (/c/Users/gupta.av/.ssh/id\_rsa):Press enter

Enter passphrase (empty for no passphrase): enter passcode

Enter same passphrase again: Again, enter passcode

Then you will get below msg in cmd propt:->

Your identification has been saved in /c/Users/gupta.av/.ssh/id\_rsa.

Your public key has been saved in /c/Users/gupta.av/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:M2YK4xiU6t8N3NuQh/WSVqwXGlyKO5Xa1n0ORbyJyKk gupta.av@LP-PC0MQFYK

The key's randomart image is:

+---[RSA 2048]----+

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+----[SHA256]-----+

5-cmd: git push origin master

cmd: git status

#if you want to pull the code or download then at first time you have to clone from github repo(only first time is required for cloning to pull the code)

-cmd: git clone paste the url of github repo.

#if you want to commit(push) from github to local project or file then you must change in file or project from github and commit then follow below step

-cmd: git pull origin master

then you will get those change in that local file or project where you have downloaded the code from github.

#for pushing the code, you need to do create SSH key.

#for pulling the code you need to run cloning first.