**Today Class Report**

***02/10/2024***

Today we will learn Git & Github. Git and Github are not same. Thus are different.

**Example** :

* Git looks my all file in git .it looks which file any change or modify.
* Github is a platform which are create a field where many people are works together.

Then we install git in our laptop and create some folder ,file for practices.

**Example** :

* Folder create : mkdir **folderName,**
* File create : touch **filename,**
* Folder Directory : cd **folderName**,
* Back one folder : cd ../,

Then we learn how to create a github repositories and this repositories clone in git .

**Example :**

* Clone Repo : git clone **gitRepoLink,**

Then we learn how to check git status have any change or modify in file .

**Example :**

* Check git status : git status

Then we learn working directory to stage file transfer, it check only what is change this file. Only identify this stage : change ,delete ,update, modify etc.

**Example :**

* stage git all file : git add –all,
* Stage git all file : git add -A,
* Stage git specific folder file : git add .(*this command work only specific folder* )
* Stage one specific file : git add **folderName/filename,**
* Reset working directory : git reset,

Then we will learn stage to local repositories.

**Example :**

* Commit file : git commit,
* Reset working directory : git reset HEAD~(this command not work in my laptop)

Now we learn Git remove ,

We can remove it manually or using command .

If we remove it manually ,

**Example :**

* Fast work to stage : git **add .**
* Reset file : git reset (It only change status not back file)
* If you need file : git reset **–hard** (this command change status and also back delete file )

If we remove using command ,

**Example :**

* Remove File : git rm **fileNmae,**(this command done two work complete one time “Remove + work to stage”)
* If you modify file remove : git rm **filename** -f (-f use because using force other wish modify file note remove direct )
* Change stage file status : git rm –cached **filename,**(it only change stage status not remove working directory )
* Remove folder : git rm -r **foldderName**,(it remove folder all file or it have any folder all remove this command).

Now we learn git branch ,

**Q -** How to check branch ?

**Ans** : git branch.

**Q -** How to create new branch ?

**Ans :** git branch **branchName.**

**Q –** how to change git branch ?

**Ans :** git checkout **branchName.**

**Q -**  How to merge any branch on main branch ?

**Ans :** git merge **main** -m “main branch all file merge to development branch”.(stay development branch must)

**Q -**  How to merge main branch with another branch?

**Ans :** git merge **branchName** -m “merge all file main branch”.(stay must Main branch)

If we face git merge conflict: It’s normally create when 2 branch create same name file .

If two file context are same , So they not create any conflict .we merge this branch both side no problem face.

**Q –** How to change default master branch name main branch ?

**Ans :** git branch -m master main

Now we learn git to github push ,fetch and poll.

**Example :**

* Push remote : git push origin main
* Push remote force : git push -f origin main
* Push another branch : git push origin development
* Fetch remote to local : git fetch origin main
* Fetch remote to local : git fetch