**20-09-2021**

**Version Control System : Version control system that records changes on files or program or application in a projects.**

**3 types**

**Local Version control : RCS : Revision control system**

**Centralized version control : SVN**

**Distributed Version control system : Local repository and remote repository.**

**Git : Git is distributed Sub Version control system which help to manage the source code.**

**Distributed version control system keeps track of software version and allow many developers to work on given project within a maintaining connection of common network.**

**Git is a open source distributed version control system.**

**Create one folder My Repository**

**Please create simple text file or any type of time with some contents.**

**Open terminal in Virtual machine.**

**git --version**

**to make normal folder as a local git repository we have to**

**run the command as**

**git init : after run this command it will create .git folder.**

**This folder consider as a hidden folder in Unix or mac**

**git status :This command is use to check the last command status.**

**git add filename This command is use to add the file from local file system to staging area.**

**Staging area : it is a area generally represent in git directory, that store information about what will go to next commit.**

**It is a intermediate area between os file system and git local repository.**

**git commit –m “First commit”**

**all commands**

**git init**

**git status**

**git add filename**

**or**

**git add . : This command is use to add all files and folder**

**git status**

**git commit –m “message”**

**first this command**

**git config –-global user.email “akash300383@gmail.com”**

**second this command**

**git config –-global user.name “Akash”**

**No do the change in same file**

**Remote repository**

**Github is type of remote repository which help to share the data from one developer to another developer.**

**AWS : code commit**

**Gitlab**

**Azure :**

**So first create the account in github**

**Then create the repository.**

**To link local repository to remote repository we have to run the command as**

**Git remote add origin URL**

**git remote add origin** [**https://github.com/Kaleakash/Java\_FIS\_2021\_Batch.git**](https://github.com/Kaleakash/Java_FIS_2021_Batch.git)

**after connect local to remote**

**we have push local repository code to remote repository**

**before push we have to check default branch**

**git branch**

**master/main**

**git push –u origin master**

**or**

**git push –u origin main**

**git branch :**

**git branch is use to hold more than one commit details.**

**Branch is like a pointer which hold more than one commit.**

**Default branch name is master/main**

**git branch (master/main)**

**to create the user-defined branch**

**git branch branchName**

**command to switch to user-defined branch**

**git checkout branchName**

**To delete the branch**

**git branch –D branchName**

**merge the code**

**git merge branchName : This command is use to merge to code to current branch**

**create folder**

**then create the file**

**then git init**

**then git add .**

**git commit –m “message”**

**Syntax**

git remote add origin https://token@github.com/Kaleakash/test\_info.git

**To Generate token**

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git remote add origin <https://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@github.com/Kaleakash/test_info.git>

after added url to origin variable we can push the data to remote repository

git push –u origin master

git remote remove origin

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