**GIT NOTES**

**Git:** Git is a software. It is a version control system. It is a Local Repository. (GITHUB, GITLAB these are the remote repositories)

GIT BASH, GIT GUI, GIT CMD will be available when installing GIT.

GIT BASH => It looks like the LINUX Environment. It starts with the $

GIT CMD => It looks like the windows Environment.

VCS => Version Control System

It is possible to go back to the previous version of our projects. Like

From version 3 to version 1

Keep versions of every file or directory.

It displays the difference.

**Notes:**

Before initializing the GIT, change the directory to the corresponding directory (which directory you want or files are in which directory).

**git init:** Create an empty Git repository or reinitialize an existing one. It is a local repository. When running this command, automatically “.git” folder is created inside the directory. That “.git” directory is in hidden directory.

**touch filename:** To create a new file in the directory, you can use the touch like below.,

touch index.html

touch app.js

touch bootstrap.css

touch header.php

while running above commands, automatically those files will be created inside the directory.

After creating a local repository (by using the command `git init`), needs to add the files into that repository.

**git add:** To add a new file into the local repository, you can use the below commands.

git add filename => Add a single file to the local repository.

git add . => Add all files to the local repository. (All files inside the directory)

git add \*.js => Add the files into the local repository extension wise. In this condition, .js files only will be added to the local repository. Examples.,

git add \*.png

git add \*.jpg

git add \*.css

git add \*.js

git add \*.py

git add \*.php

git add \*.html

git add config/index.html

**git rm --cached filename** => To remove a file from the local repository, you can use the command.

git rm --cached filename.php

git rm --cached index.html

**git status:**

**git commit**: It means `saving the state`. This command is used for saving the current state in the overall project development. While running the commit command, a new version will be created in each commit with the code like 15046e1 , 27048e3, etc.. –m means commit message.

You can use the commit command like below.,

git commit –m “Initial Commit”

git commit –m “Shipping Modules Integrated”

git commit –m “Payment Modules Integrated”

**git remote:** git remote add origin <https://github.com/test/rajannotes.git>

**git push:** git push –u origin main

**git clone:** git clone https://github.com/surulirajan-mca/git-github-basics.git

Downloading or cloning the project files (Repository Files) from the Remote repository(Github) to the local repository(Git).