**NOTES ON GIT**

**Git** is a version control system. It is used mainly for collaboration and keeping track of code changes.

**GitHub** is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere

**Repository:** a place where we store our files.

**Remote:**It can be a folder on cloud or on some websites like GitHub, GitLab or Bitbucket or anywhere. It serve as a backup if your machine was crashed by power fluctuations or any other problems.

**Commands in git**

**Git –version:** This is used to check the version of git

$ git –version

**Git clone:** It is used to make a copy of that repo in a new directory.

*$ git clone repo url*

**Git add:**Moves changes from the working directory to the staging area

**Git status:** It displays information about a current repository that is the state of the repository by listing out all the files in the repository

*$ git status*

**Git pull:** It is used to fetch and update content on the local repository from the remote repository

*$ git pull*

**Git init:**Initializes a new Git repository. If you want to place a project under revision control, this is the first command you need to learn.

*$ git init*

**Git push:** A simple way of sending update to the origin. Latest update made on the Local repository is made available on the remote repository,

**Git commit :** The commit command is used to save your changes to the local repository.

*$ git commit -m “ your commit message”*

**Git merge:**A way to integrate changes from different branches. After forking the project history with git branch, git merge lets you put it back together again.

$ git merge

**Git branch:**List all of the branches in your repository.

$ git branch

**Git checkout:** Allow you to change from one branch to another.

$ git checkout <branchname>

$ git checkout -b <branchname> - This create a new branch and checkout to that branch

**Mkdir :** This is used to create a new folder or root directory

*$ mkdir directory\_name*