GIT COURSE NOTES

CURRICULUM:

1.Introduction to Version Control

Keeps versions of every file/directory

Doc changes with descriptive messages

Displaying differences

2. GIT Commands

git help - get git commands list

clear - to clear git terminal

git config –list - to get config details

git config –global user.name “username” – to set name

git config –global user.email “email id” – to set email id

3.First GIT PROJECT

* Open a new dir eg( cd D:/git)
* git init – to initialise git repo
* git status – to get status of repo

4.Basic Workflow of GIT

touch hello.py – to create a new file

nano hello.py - to add content to the file

git add hello.py – to add file to git

git status – to know info about commits

git commit -m “my first git project !” – to create snapshot of project

git log – to get the activity log

5.GIT Overflow \_(Practices):

git diff – to find difference between two commits

git ls-files – to get all git files

git rm <filename1 file name2> - to remove files e.g.(git rm hello.py greet.py)

git rm -r <directory> - to remove a directory

6.Pushing Local Directory to GITHUB:

git remote add origin <https://github.com/vasanthL/FirstGitProject.git>

* to add local repo to github repo

git remote -v – to check whether repo is working

git push -u origin master – to commit to github repo

7.Configuring Connection with SSH Keys:

ssh-keygen -t rsa -b 4096 -C [vasanthloganathan25@gmail.com](mailto:vasanthloganathan25@gmail.com)

* to create ssh keygen
* cd ~/.ssh
* ls
* eval $(ssh-agent -s)
* ssh-add id\_rsa
* clip < id\_rsa.pub

github -> setting -> ssh keys -> add name -> paste ssh key -> add keys

8. Watch & Star

To watch changes to a repo select (watch) button and select right option.

To bookmark a github repo – (star )it.

9. Raw, Blame & History of file in GitHub:

Raw – to view the text version of code

Blame - to view the author of the code

History – to show all the commits of a particular file

10. Issues & Labels in GitHub:

Issues – to raise questions on the code

Milestone – container for an issue

11. (“.GitIgnore”):

To ignore a file to be ignored from ignored

12. GIT Fork Functionality:

Fork – to pull repo from other github accounts

Pull request – to notify to changes to github account to change their code that u have changed

13. Cloning from Remote GIT to Local Repository:

git clone <https://github.com/vasanthL/instagramPosts.git> - to clone repo

git add

git commit

git push -u origin master