**Git notes:**

Using Git bash on windows 10

**Know your version of git installed in your computer:**

git –version

**Find help for any command**

**Suppose you need help in git commit , git add commands**

git help commit git help add

git commit –help git add –help

**Make local directory through git bash**

mkdir directoryname

**Change directory you would like to work on git bash:**

cd directoryname

**Initialize the directory: this is creating local repository**

git init

**Make a new file in directory(make sure it shows the directory that you want to use) through Git bash:**

type nul> filename.filetype

touch filename.filetype

**How to edit the file from directory(make sure it shows the directory that you want to use) through Git bash: using Vim editor**

**vim filename.filetype**

1. **To insert text in Vim editor: press “I”**
2. **To quit from the inserting part , press esc, press : , type q!, and press enter**

**How to remove the file from directory(make sure it shows the directory that you want to use) through Git bash:**

rm filename.filetype

**Check status of git repository:**

git status

**Add the file in current directory:**

git add filename.filetype

**for multiple files to add in local repository index:**

git add -A

**When you add file to directory, make sure you commit after your adding process done in the current directory.**

git commit -m “ commit message here”

**When you add multiple files to directory, make sure you commit after your adding process done in the current directory. Commit for multiple files: with “-a”**

git commit -a -m “ commit message here”

**See the list of commits you have made by command:**

git log

**ACCESS GITHUB through GIT BASE:**

**Open Github with providing username:**

git config –global user.username your\_username\_here

**Make and open new repository in Github for remote repository:**

* Go to GITHUB, Make a new repository. Copy the remote link for further process

**Connect the local directory and remote repository: the copied link is your clone link**

git remote add origin copied\_link\_paste\_here

**OR::: Clone the repository from the GITHUB to LOCAL**

git clone copied\_link\_paste\_here\_cloned\_link

**Push local file into remote repository:**

git push origin branchname

or:::: git push -u origin branchname :::: here, -u stands for username

**Pull files from remote repository to local repository:**

git pull origin master

**BRANCHES:**

**Create a branch: note: in new branch you do not have to use git init .. just commit and push the new branch to origin. It will create new branch in origin.on github**

git branch new\_branch\_name\_here

**Go to the different branch from current branch: default branch is master at start**

git checkout branch\_name\_you\_want\_to\_go

**MERGING: source\_branch is the branch that you want to merge to another branch.**

**Make sure the branch(destination\_branch) in what you want to merge the source\_branch is checked\_out first.**

git merge source\_branch\_name

**How to see the changes of file on command window( here git bash)**

**Use:**

cat filename.filetype.

**REBASING: IS ANOTHER KIND OF MERGING: it gives linear branching.. by combining the source\_branch into master branch: it makes linear sequence of commits**

Go to the branch you want to merge.. (source branch)

git rebase master

**git pull :**

**use: it pull all the files from central repository in one master branch on local repository.**

**git fetch:**

use: **It fetch all the files from central repository in different branch on local repository.. but you have to make sure you do merging for that. because some files from another branch is not possible to see in your current work.**

**REVERT back to previous changes in file:**

**Check logs: git log**

**Copy the commit number (first 6 digit) you want to look,**

**Type:**

git checkout paste\_that\_copied\_number filename.filetype\_that\_you\_want\_to\_see\_previous\_version

**Create your own SSH Key for project:**