**GIT COMMANDS**

**1. Configuring username and email(--global optional)**

$git config --global user.name "Suma Sajjan"

$git config --global user.email suma.p@techmahindra.com

**2. Viewing config parameters**

$git config –list

**3. creating an empty repository(.git creation)**

$mkdir demoproject

$cd demoproject

$git init

**4. create a text file in demoproject**

**5. Adding the files to the staging area**

$git add "\*.txt"

**6. Finding the tracked/untracked files**

$git status

**7. Commiting the changes made(adding the files to local repo)**

$git commit -m "Initial commit"

**8. Finding the logs**

$git log

**9. Creating a remote repository**

$git remote add origin "https://www.github.com/Suma Sajjan/demoRepo.git"

**10. Pushing the commits to the remote repository**

$git push -u origin master

**CLONING**

**11. Cloning the remote repository(creates a directory inside a working directory)**

$git clone "https://www.github.com/Suma Sajjan/demoRepo.git"

**BRANCHING (DEFAULT: MASTER)**

**12. Creating a new branch**

**$** [**git checkout -b <my branch name>**](http://git-scm.com/docs/git-checkout).

**13. Switching the branch**

$git checkout demobranch

**14. Shorcut to create and switch branch**

$git checkout -b branch\_name

**15. Renaming a branch**

$git branch -m new\_branch old\_branch

**16. Checkout, Reset, remove, move, delete, git diff, Tag operation**

**checkout-Used to revert back the changes in staging area**

$git checkout demo.txt(delete)

$git checkout HEAD -- demo.txt(modified)

**Removing the changes made**

$git reset --soft HEAD/Commid ID

$cat .git/refs/heads/master

$git reset --hard HEAD/Commit ID

**Renaming a file**

$git mv old\_file new\_file

Copy the files from local system to a repository using a Push command

git push --set-upstream https://github.com/VaishuSajjan/Vaishu.git vaishubranch

**GENERATION OF SSH KEYS TO PUSH THE COMMITS TO REMOTE REPOSITORY**

**1. Check whether there are any keys existing in .ssh directory**

$ls -al ~/.ssh

**2. Generate a new SSH key**

$ssh-keygen -t rsa -C "suma.p@techmahindra.com"

**3. Enter passphrase and retype it then a fingerprint of your SSH will be generated**

**4. Add your key to SSH agent(displays agent Pid)**

$eval `ssh-agent -s`

**5. Add your generated SSH key to ssh-agent**

$ssh-add ~/.ssh/id\_rsa

**6. Add your SSH key to your account**

Settings->SSH Keys->Add SSH Key