**Git clone** to clone the repository

**Git log** To exit log press q

**Git diff First commit id second commit id** tofind diff between two commits enter first four or more characters of commit ids

**HEAD** current commit you are working on

**Git checkout commit id** to revert control to status before the commit

**Git init** initializes the repository

**ls –a** lists all files that are hidden as well

**Git status** shows the status

**Git reset** filename to remove a file to staging area

**Git add** toadd a file to staging area

**Git commit** to commit files in staging area

**Git commit –m “commit message “** to commit with the commit message

**git config --global user.email ” mail“** to set mail

**git config –global user.name “ name“** to set name

**git diff** to find diff between staging are and working directory

**git diff –staged** to find diff between staging area and commit1

**git log --graph --oneline branch1 branch2** visual representation of commit history

**git checkout –b <new-branch-name>** = git branch <new-branch-name> + git checkout <new-branch-name>

**git show commit-id** changes introduced by that commit compared to its parent or comparea commit to its parent.

**git merge <branch1> <branch2>** merges two branches

git merge will also include the currently checked-out branch in the merged version. So if you have branch1 checked out, and you run **git merge <branch2> < branch3>**, the merged version will combine branch1 as well as branch2 and branch3.

If you want to merge branch2 into branch1, you can simply **git checkout <branch1>** and then type **git merge <branch2>**.

**git branch -d <branch>** to delete a branch

**git log –nx** to display only x number of commit

**one cannot clone a repository without a commit**

**git remote** to see the no. of remotes

**git remote add <name usually “origin” for first repository> <URL from github.com>** to create remote

**git remote -v** to get more info about remotes

**git push <name of remote> <name of branch>** to push local branch to repository on github