git init – initialize repo in machine

git add – add files to repo

git commit –a –m “message” – to commit changes to repo… -a is used to add the file to repo while committing. We have to do this everytime we commit something

git remote add <remote name> <online repo link> - create a remote to the online repo at github. This remote is used to push/pull data

git push <remote name> <branch> - to push changes to github

git checkout –b <branch name> - to create a new branch in local repo

git fetch <remote name> - to fetch from github…tells is a new branch exists in online repo

git checkout <new branch name> - to switch to the branch created in online repo

git merge <branch> - to merge branch to another branch

git branch –d <branch> - to delete branch from local repo

git push <remote> :<branch> - to delete the branch from github

**Creating a new branch**

do: git checkout –b <branch>

do: git push <remote> <branch>

**Checking out someone else’s branch**

do: git fetch <remote>

do: git checkout <branch>

**Merging branch with master**

do: git checkout master

do: git merge <branch>

do: git push <remote> master

also can do: git branch –d <branch>

and git push <remote> :<branch>

**Resolving conflicts while merging with master**

do: git checkout master

do: git merge <branch>

do: git status – to see the conflicting files

after editing the conflicting files

do: git commit –a –m “comment”

do: git push <remote> master

**Bringing the branch upto speed with the master**

do: git checkout <branch>

do: git pull <remote> master – now your local repo has all the changes in the master

# You still have to commit any of your changes and then push it to github

**Resolving conflicts while bringing branch upto speed**

do: git checkout <branch>

do: git pull <remote> master

resolve the conflicts

Now the local copy of branch has all the changes in master and the changes made by you

# You still have to commit any of your changes and then push it to github

**Bringing a branch upto speed with another branch**

If someone else has committed code to another branch but has not merged it with master then pull the changes from that branch to your own and resolve conflicts if any

do: git checkout <your branch>

do: git pull <remote> <other branch>

# do a commit and push your changes to github whenever you feel like