



# Cognizance Task - 1

**Name:** Kumar Laxmikant

**Roll No:** CH.EN.U4CSE20039

**Batch:** 2020-24

**Department:** CSE-A

## Basic Operations:

The following is a summary of basic git operations:

**git add:** Puts current working files into the stage.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git add .
```

**git checkout:** Replaces the current working files with files from a branch.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git checkout  
Your branch is up to date with 'origin/main'.
```

**git checkout -b:** Creates a new local branch from the current branch's tip.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git checkout -b newbranch  
Switched to a new branch 'newbranch'
```

**git clone:** Clone an existing repository into a new directory.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git clone https://github.com/Kumar-laxmi/Cognizance.git  
Cloning into 'Cognizance'...  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
Receiving objects: 100% (3/3), done.
```

**git commit:** Commits staged changes to a local branch.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git commit  
On branch newbranch  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
      Cognizance/  
  
nothing added to commit but untracked files present (use "git add" to track)
```

**git commit -a:** Commits all modified files to a local branch(shorthand for “git add” followed by “git commit” for each modified file).

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git commit -a  
On branch newbranch  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
      Cognizance/  
  
nothing added to commit but untracked files present (use "git add" to track)
```

**git fetch:** Downloads changes from a remote repository into the local clone.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git fetch
```

**git merge:** Merges files from a given branch into the current branch.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git merge  
fatal: No remote for the current branch.
```

**git pull:** Fetches remote changes on the current branch into the local clone, and merges them into the current working files.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git pull  
There is no tracking information for the current branch.  
Please specify which branch you want to merge with.  
See git-pull(1) for details.  
  
git pull <remote> <branch>  
  
If you wish to set tracking information for this branch you can do so with:  
  
git branch --set-upstream-to=origin/<branch> newbranch
```

**git push:** Uploads changes from all local branches to the respective remote repositories.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git push origin newbranch  
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0  
remote:  
remote: Create a pull request for 'newbranch' on GitHub by visiting:  
remote:      https://github.com/Kumar-laxmi/Cognizance/pull/new/newbranch  
remote:  
To https://github.com/Kumar-laxmi/Cognizance.git  
* [new branch]      newbranch -> newbranch
```

**git reset:** Makes the current branch point to some specific revision or branch

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git reset
```

**git rebase:** Integrates changes from one branch into another. It is an alternative to the better known “merge” command.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git rebase  
There is no tracking information for the current branch.  
Please specify which branch you want to rebase against.  
See git-rebase(1) for details.
```

**git fork:** Fork will create a copy of the repository in your GitHub account so that you can make changes to the project.

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git fork https://github.com/Kumar-laxmi/Cognizance.git
```

**Git config --list --show-origin:**

```
kumarlaxmikant@Kumars-MacBook-Pro Cognizance % git config --list --show-origin

file:/usr/local/etc/gitconfig credential.helper=osxkeychain
file:/Users/kumarlaxmikant/.gitconfig filter.lfs.process=git-lfs filter-process
file:/Users/kumarlaxmikant/.gitconfig filter.lfs.required=true
file:/Users/kumarlaxmikant/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:/Users/kumarlaxmikant/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:/Users/kumarlaxmikant/.gitconfig user.name=Kumar-laxmi
file:/Users/kumarlaxmikant/.gitconfig user.email=laxmikantk2002@gmail.com
file:./git/config core.repositoryformatversion=0
file:./git/config core.filemode=true
file:./git/config core.bare=false
file:./git/config core.logallrefupdates=true
file:./git/config core.ignorecase=true
file:./git/config core.precomposeunicode=true
file:./git/config remote.origin.url=https://github.com/Kumar-laxmi/Cognizance.git
file:./git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:./git/config branch.main.remote=origin
file:./git/config branch.main.merge=refs/heads/main
```