1.git add

Puts current working files into the stage.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git add shoppinglist.txt
```

2.git checkout

Replaces the current working files with files from a branch.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.
```

3.git checkout -b

Creates a new local branch from the current branch's tip.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git checkout -b main
fatal: a branch named 'main' already exists

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git checkout -b dev

Switched to a new branch 'dev'
```

4.git clone

Clone an existing repository into a new directory.

```
MINGW64:/c/Users/sohan/Documents/code/Basic-operations

sohan@HPLaptop15s-fq5078 MINGW64 ~
$ cd Documents

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents
$ cd code

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code
$ git clone https://github.com/SohanAvaneesh21/Basic-operations.git
Cloning into 'Basic-operations'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
```

5.git commit

Commits staged changes to a local branch.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git commit -m "just added a file"
[main e75c5df] just added a file

1 file changed, 1 insertion(+)
create mode 100644 doc1.txt
```

6.git commit -a

Commits all modified files to a local branch(shorthand for "git add" followed by "git commit" for each modified file

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git commit -a
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working tree clean
```

7.git fetch

Downloads changes from a remote repository into the local clone.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git fetch

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git fetch origin

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git remote add upstream https://github.com/Chad-Hirsch/CS5820_VacuumWorld.git

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git fetch upstream
remote: Enumerating objects: 1318, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 1318 (delta 1), reused 7 (delta 1), pack-reused 1311
Receiving objects: 100% (1318/1318), 1.14 MiB | 410.00 KiB/s, done.
Resolving deltas: 100% (149/149), done.
From https://github.com/Chad-Hirsch/CS5820_VacuumWorld
* [new branch] master -> upstream/master
```

8.git merge

Merges files from a given branch into the current branch.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)
$ git merge
Already up to date.
```

9.git pull

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

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main)

$ git pull origin main

From https://github.com/SohanAvaneesh21/Basic-operations

* branch main -> FETCH_HEAD

Already up to date.
```

10.git push

Uploads changes from all local branches to the respective remote repositories.

11.git reset

Makes the current branch point to some specific revision or branch

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main) $ git reset main
```

12.git rebase

Integrates changes from one branch into another. It is an alternative to the better known "merge" command.

```
sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main) $ git rebase main Current branch main is up to date.
```

13.git fork

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

sohan@HPLaptop15s-fq5078 MINGW64 ~/Documents/code/Basic-operations (main) \$ git clone https://github.com/sohanaravapalli/CS5820_VacuumWorld.git Cloning into 'CS5820_VacuumWorld'...