- **Creating a repository and initializing git**

```
[(base) venkatasai@Venkatas-MacBook-Pro Desktop % mkdir newrepo
[(base) venkatasai@Venkatas-MacBook-Pro Desktop % cd newrepo
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git init
hint: Using 'master' as the name for the initial branch. This default branch
hint: is subject to change. To configure the initial branch name to use in al
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /Users/venkatasai/Desktop/newrepo/.git/
(base) venkatasai@Venkatas-MacBook-Pro newrepo % touch newfile.txt
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git add newfile.txt
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git status
[On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   newfile.txt
```

- **Branch create/merge/delete**
- **Git push/pull**

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   newfile.txt

(base) venkatasai@Venkatas-MacBook-Pro newrepo % git add .
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git commit -m "1st commit"
[[master (root-commit) 9e6d7d6] 1st commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 newfile.txt
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git branch branch1
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git branch
[  branch1
* master
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git checkout branch1
[Switched to branch 'branch1'
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git branch
[* branch1
   master
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git checkout main
[error: pathspec 'main' did not match any file(s) known to git
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git checkout master
[
 Switched to branch 'master'
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git branch -m main
[
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git push -u origin main
[
 fatal: 'origin' does not appear to be a git repository
 fatal: Could not read from remote repository.

 Please make sure you have the correct access rights
 and the repository exists.
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git checkout main
[Already on 'main'
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git merge brnch
[merge: brnch - not something we can merge
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git merge branch
[merge: branch - not something we can merge
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git merge branch1
[Already up to date.
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git branch -d branch1
[Deleted branch branch1 (was 9e6d7d6).
(base) venkatasai@Venkatas-MacBook-Pro newrepo % git remote add origin https:
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git push  -u origin main
 Enumerating objects: 3, done.
[Counting objects: 100% (3/3), done.
 Writing objects: 100% (3/3), 211 bytes | 211.00 KiB/s, done.
 Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
 To https://github.com/Divya-Gorijala/perscholas-repository.git
  * [new branch]      main -> main
 branch 'main' set up to track 'origin/main'.
```

```
[(base) venkatasai@Venkatas-MacBook-Pro newrepo % git pull origin main
 From https://github.com/Divya-Gorijala/perscholas-repository
  * branch            main        -> FETCH_HEAD
 Already up to date.
 (base) venkatasai@Venkatas-MacBook-Pro newrepo %
```

- **Edit file**

```
Already up to date.
 (base) venkatasai@Venkatas-MacBook-Pro newrepo % git add newfile.txt
 (base) venkatasai@Venkatas-MacBook-Pro newrepo % git commit -m "added changes
[[main a31767c] added changes to the file
[ 1 file changed, 1 insertion(+)
 (base) venkatasai@Venkatas-MacBook-Pro newrepo % git push -u origin main
 Enumerating objects: 5, done.
 Counting objects: 100% (5/5), done.
[Writing objects: 100% (3/3), 267 bytes | 267.00 KiB/s, done.
 Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
 To https://github.com/Divya-Gorijala/perscholas-repository.git
    9e6d7d6..a31767c  main -> main
 branch 'main' set up to track 'origin/main'.
 (base) venkatasai@Venkatas-MacBook-Pro newrepo % git pull origin main
 From https://github.com/Divya-Gorijala/perscholas-repository
  * branch            main        -> FETCH_HEAD
[Already up to date.
```