

Git- Assignment

1. Create a Repository and do all the commands (git clone, git add, git commit, git push)

Ans:

```
prasad@prasad-VirtualBox:~/gitfile/abc/abc$ git clone https://github.com/prasad219/abc.git
Cloning into 'abc'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 10 (delta 1), reused 8 (delta 0), pack-reused 0
Receiving objects: 100% (10/10), done.
Resolving deltas: 100% (1/1), done.
prasad@prasad-VirtualBox:~/gitfile/abc/abc$
```

```
prasad@prasad-VirtualBox: ~/gitfile/abc
prasad@prasad-VirtualBox:~/gitfile/abc$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
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 /home/prasad/gitfile/abc/.git/
prasad@prasad-VirtualBox:~/gitfile/abc$ git add d1.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git stastus
git: 'stastus' is not a git command. See 'git --help'.

The most similar command is
    status
prasad@prasad-VirtualBox:~/gitfile/abc$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   d1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        abc/

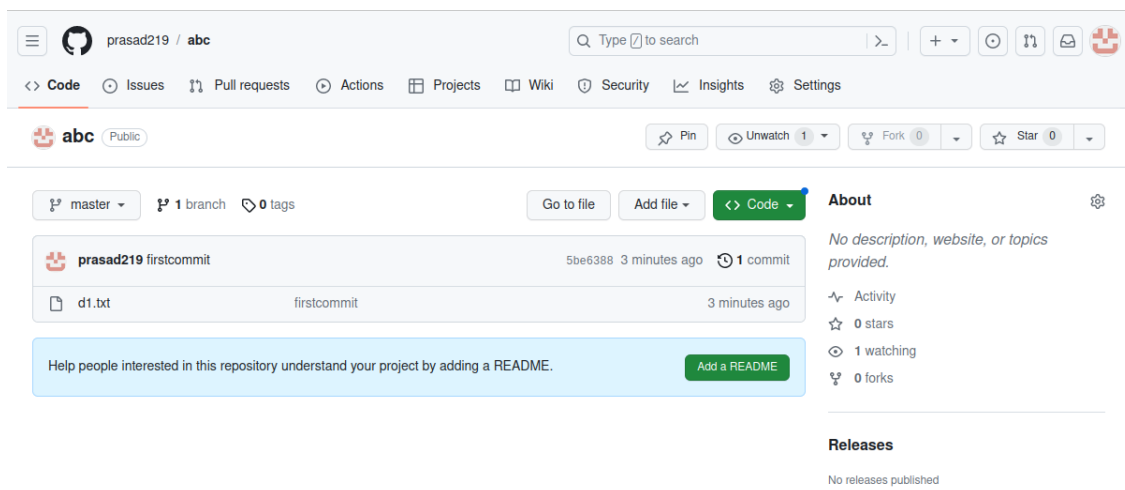
prasad@prasad-VirtualBox:~/gitfile/abc$ git commit -m "firstcommit"
[master (root-commit) 5be6388] firstcommit
 1 file changed, 1 insertion(+)
 create mode 100644 d1.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git log
commit 5be638838014938cbaacaf5695a54f298c4cf455 (HEAD -> master)
Author: prasad219 <prasad.lomte@gmail.com>
Date:   Mon Sep 18 14:41:47 2023 +0530
```

```

prasad@prasad-VirtualBox:~/gitfile/abc$ git commit -m "firstcommit"
[master (root-commit) 5be6388] firstcommit
 1 file changed, 1 insertion(+)
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commit 5be638838014938cbaacaf5695a54f298c4cf455 (HEAD -> master)
Author: prasad219 <prasad.lomte@gmail.com>
Date: Mon Sep 18 14:41:47 2023 +0530

    firstcommit
prasad@prasad-VirtualBox:~/gitfile/abc$ git remote add origin https://github.com/prasad219/abc.git
prasad@prasad-VirtualBox:~/gitfile/abc$ git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/prasad219/abc.git'
prasad@prasad-VirtualBox:~/gitfile/abc$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/prasad219/abc.git'
prasad@prasad-VirtualBox:~/gitfile/abc$ git push -u origin master
Username for 'https://github.com': prasad219
Password for 'https://prasad219@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 232 bytes | 232.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/prasad219/abc.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
prasad@prasad-VirtualBox:~/gitfile/abc$

```



2. Show the difference between push and pull command.

Ans:

Push:- The git push command is used to send local commits to a remote repository. It is typically used when you want to share your local changes with others or store them on a centralized server

Syntax:- git push <remote_name> <branch_name>


Example:-

git push origin main

This command pushes the local commits from the main branch to the origin remote repository.

```
prasad@prasad-VirtualBox: ~/gitfile
prasad@prasad-VirtualBox:~/gitfile/abc$ nano d3.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
prasad@prasad-VirtualBox:~/gitfile/abc$ git add d3.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git commit -m "from master branch"
[master 6d66bc5] from master branch
1 file changed, 1 insertion(+)
create mode 100644 d3.txt

prasad@prasad-VirtualBox:~/gitfile/abc$ git pull --rebase origin master
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 636 bytes | 636.00 KiB/s, done.
From https://github.com/prasad219/abc
* branch      master      -> FETCH_HEAD
   5be6388..5081294 master  -> origin/master
Successfully rebased and updated refs/heads/master.
prasad@prasad-VirtualBox:~/gitfile/abc$ git push -u origin master
Username for 'https://github.com': prasad219
Password for 'https://prasad219@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 310.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/prasad219/abc.git
   5081294..51afb56 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
prasad@prasad-VirtualBox:~/gitfile/abc$
```

 **abc** Public Pin Unwatch 1

🔑 master ▾


🌿 2 branches

🏷️ 0 tags

Go to file


Add file ▾




<> Code ▾

 **Your master branch isn't protected**

Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Protect this branch ×

 **prasad219** from master branch 51afb56 10 minutes ago 🕒 4 commits

 d1.txt	firstcommit	40 minutes ago
 d2.txt	developer branch commit	28 minutes ago
 d3.txt	from master branch	10 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

Pull:-

The git pull command is used to retrieve and merge changes from a remote repository to your local repository. It's used when you want to update your local repository with changes made by others

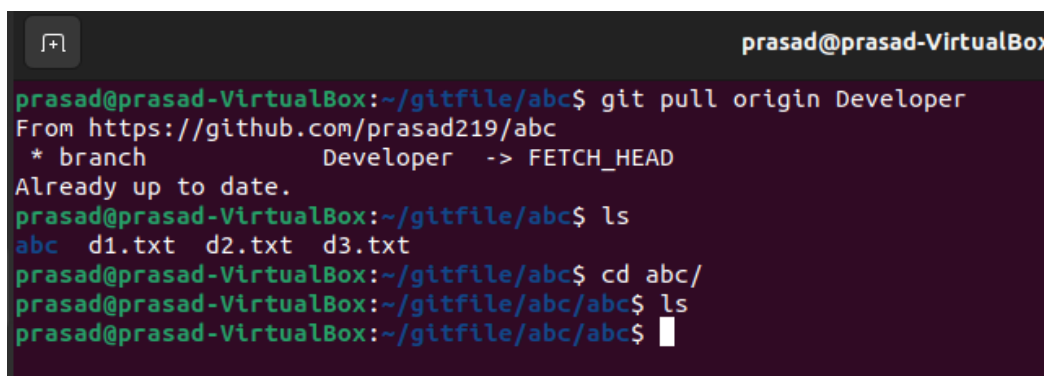
Syntax:-

git pull <remote_name> <branch_name>

Example:-

git pull origin main

This command fetches changes from the main branch on the origin remote and merges them into your local branch.

A terminal window with a dark background and light-colored text. The prompt is 'prasad@prasad-VirtualBox'. The user enters 'git pull origin Developer'. The output shows the remote repository URL 'https://github.com/prasad219/abc', the branch 'Developer' being fetched, and a message 'Already up to date.' followed by a list of files 'd1.txt d2.txt d3.txt'. The user then enters 'cd abc/' and 'ls', showing the current directory contents.

```
prasad@prasad-VirtualBox:~/gitfile/abc$ git pull origin Developer
From https://github.com/prasad219/abc
 * branch            Developer -> FETCH_HEAD
Already up to date.
prasad@prasad-VirtualBox:~/gitfile/abc$ ls
abc d1.txt d2.txt d3.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ cd abc/
prasad@prasad-VirtualBox:~/gitfile/abc/abc$ ls
prasad@prasad-VirtualBox:~/gitfile/abc/abc$
```

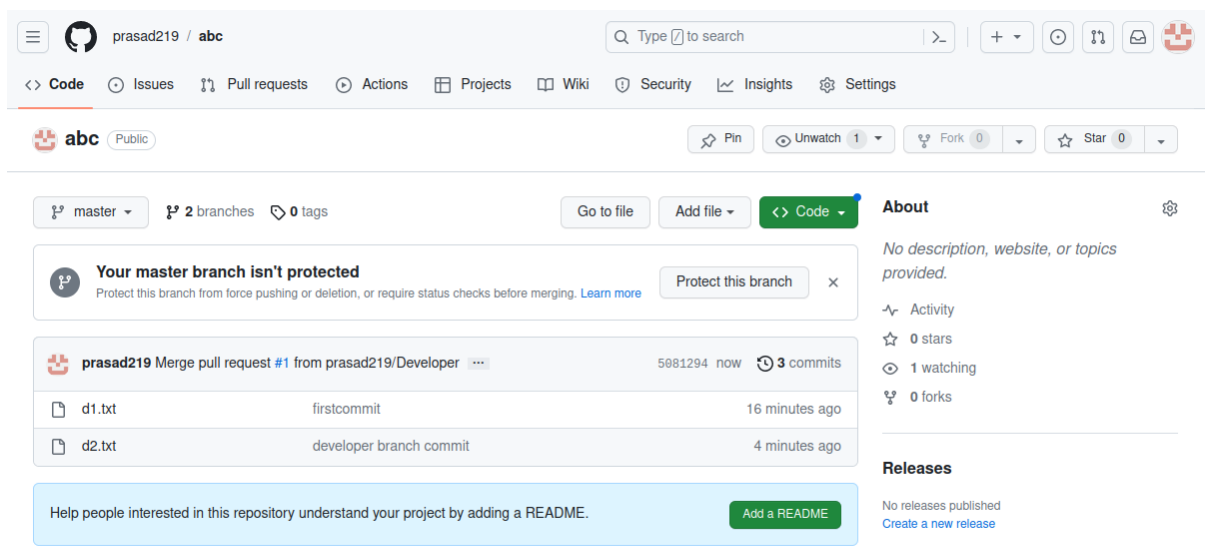
3. Create a new branch "Developer" and do all the commands.

Ans:

```
prasad@prasad-VirtualBox: ~/gitfile/abc
prasad@prasad-VirtualBox:~/gitfile/abc$ git checkout -b Developer
Switched to a new branch 'Developer'
prasad@prasad-VirtualBox:~/gitfile/abc$ nano d2.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git add d2.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git log
commit 5be638838014938cbaacaf5695a54f298c4cf455 (HEAD -> Developer, origin/master, master)
Author: prasad219 <prasad.lomte@gmail.com>
Date: Mon Sep 18 14:41:47 2023 +0530

    firstcommit
prasad@prasad-VirtualBox:~/gitfile/abc$ git commit -m "developer branch commit"
[Developer dc0ab29] developer branch commit
1 file changed, 1 insertion(+)
create mode 100644 d2.txt
prasad@prasad-VirtualBox:~/gitfile/abc$ git status
On branch Developer
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    abc/

nothing added to commit but untracked files present (use "git add" to track)
prasad@prasad-VirtualBox:~/gitfile/abc$ git push origin Developer
Username for 'https://github.com': prasad219
Password for 'https://prasad219@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 278 bytes | 278.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'Developer' on GitHub by visiting:
remote:   https://github.com/prasad219/abc/pull/new/Developer
remote:
To https://github.com/prasad219/abc.git
 * [new branch]      Developer -> Developer
prasad@prasad-VirtualBox:~/gitfile/abc$
```




Default branch

master

Updated 23 minutes ago by prasad219

Default



Your master branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Dismiss

Protect this branch

Your branches

Deve1oper

Updated 34 minutes ago by prasad219

2

0

#1

Merged

Active branches

Deve1oper

Updated 34 minutes ago by prasad219

2

0

#1

Merged