

Create a git repo in local

Create a file and add first line in local master

```
C:\Users\VMUser\Desktop\Repo\Test>mkdir LabRepo
C:\Users\VMUser\Desktop\Repo\Test>cd LabRepo
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git init -b main
Initialized empty Git repository in C:/Users/VMUser/Desktop/Repo/Test/LabRepo/.git/
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>type nul> First1.txt
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>notepad First1.txt
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
       First1.txt

nothing added to commit but untracked files present (use "git add" to track)
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git add *
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
       new file:   First1.txt
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>_
```

File1.txt - Notepad

File Edit Format View Help
First line in the File

Commit and push the changes in remote repo

```
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git commit -m "First Commit"
[main (root-commit) 29e1eb3] First Commit
 1 file changed, 1 insertion(+)
 create mode 100644 First1.txt

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git remote add origin https://github.com/shubhamsharma11/LabTestRepo.git
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git remote -v
origin https://github.com/shubhamsharma11/LabTestRepo.git (fetch)
origin https://github.com/shubhamsharma11/LabTestRepo.git (push)
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 244 bytes | 244.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/shubhamsharma11/LabTestRepo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Add second line in file in github master and commit

Pull in the local repo

```
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git fetch origin
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 691 bytes | 13.00 KiB/s, done.
From https://github.com/shubhamsharma11/LabTestRepo
   29e1eb3..f56c69d  main       -> origin/main

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git pull -v
POST git-upload-pack (165 bytes)
From https://github.com/shubhamsharma11/LabTestRepo
   = [up to date]      main       -> origin/main
Updating 29e1eb3..f56c69d
Fast-forward
 First1.txt | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git pull
Already up to date.

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>notepad First1.txt
```

```
First line in the file
Added second line in the file from the remote in master branch
|
```

Add the 3rd line in file in remote master

```
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git fetch origin
From https://github.com/shubhamsharma11/LabTestRepo
 * [new branch]      dev       -> origin/dev

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git pull
Already up to date.

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git branch
* main

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git checkout dev
Switched to a new branch 'dev'
branch 'dev' set up to track 'origin/dev'.

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git pull origin
Already up to date.
```

Add the 5th line in file in local dev branch

```
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>notepad First1.txt
```

Push the local branch to github

Merge the branch to master on the githubp

```
C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git status
On branch dev
Your branch is up to date with 'origin/dev'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   First1.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git add *

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git commit -m "Fifth line commit"
[dev 92f37ca] Fifth line commit
 1 file changed, 1 insertion(+)

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git push -u origin dev
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 335 bytes | 167.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/shubhamsharma11/LabTestRepo.git
   f56c69d..92f37ca  dev -> dev
branch 'dev' set up to track 'origin/dev'.

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git branch
  dev
* main

C:\Users\VMUser\Desktop\Repo\Test\LabRepo>git fetch origin
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 706 bytes | 18.00 KiB/s, done.
From https://github.com/shubhamsharma11/LabTestRepo
```