Ramya Vemuru
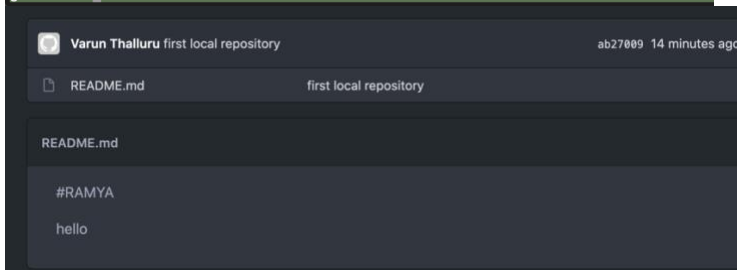Git Practical

- Initialize an empty Git repository on your local machine with the name "gitlocal" and make a README.md file in that directory which should contain your name as a heading and a hello message.

```
Ramya $mkdir gitlocal
Ramya $ls -a
.                                    Screen Shot 2020-10-31 at 8.56.50 PM.png
..                                   Screen Shot 2020-10-31 at 9.06.48 PM.png
.git                                 Screen Shot 2020-10-31 at 9.10.43 PM.png
InnovationPython_Ramya               gitlocal
Ramya $ls
InnovationPython_Ramya               Screen Shot 2020-10-31 at 9.10.43 PM.png
Screen Shot 2020-10-31 at 8.56.50 PM.png   gitlocal
Screen Shot 2020-10-31 at 9.06.48 PM.png
Ramya $cd gitlocal/
gitlocal $pwd
/Users/varun/workspace/Ramya/gitlocal
gitlocal $vim README.md
gitlocal $ls
README.md
gitlocal $git init .
Initialized empty Git repository in /Users/varun/workspace/Ramya/gitlocal/.git/
gitlocal $git add README.md
gitlocal $git commit -m "first local repository"
[master (root-commit) ab27009] first local repository
 1 file changed, 3 insertions(+)
 create mode 100644 README.md
```
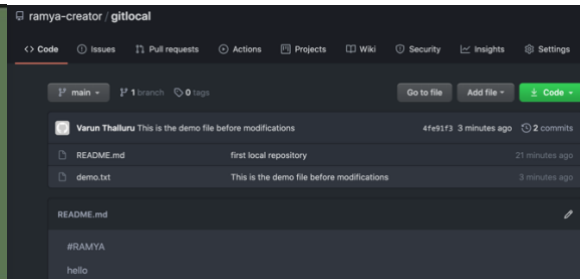
- Now check the status of your git directory and push all the files in that directory to your GitHub repo which you have made in the first step. With a message "First Commit to Git Repo".

```
gitlocal $git remote add origin https://github.com/ramya-creator/gitlocal.git
fatal: remote origin already exists.
gitlocal $git branch -M main
gitlocal $git push -u origin main
Counting objects: 3, done.
Writing objects: 100% (3/3), 235 bytes | 235.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ramya-creator/gitlocal.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
gitlocal $
```

Varun Thalluru first local repository		ab27009 14 minutes ago	
README.md	first local repository		

README.md

#RAMYA

hello

- Now add a file to your Github repo named "demo.txt" from the github console with content : "This is the demo file before modifications".

```
gitlocal $vim demo.txt
gitlocal $git add demo.txt
gitlocal $git commit -m "This is the demo file before modifications"
[main 4fe91f3] This is the demo file before modifications
 1 file changed, 1 insertion(+)
 create mode 100644 demo.txt
gitlocal $git push -u origin main
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 341 bytes | 341.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ramya-creator/gitlocal.git
   ab27009..4fe91f3  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
gitlocal $
```
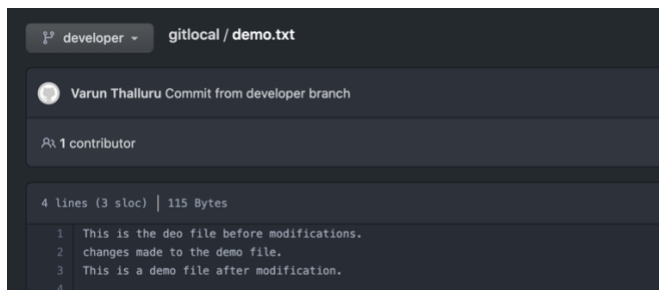
ramya-creator / gitlocal

<> Code ⊙ Issues ⊓ Pull requests ⊙ Actions ▥ Projects ▥ Wiki ⊙ Security ⊯ Insights ⚙ Settings

⬡ main ▾   ⅋ 1 branch ⊙ 0 tags   Go to file   Add file ▾   Code ▾

Varun Thalluru This is the demo file before modifications   4fe91f3 3 minutes ago   ⏱ 2 commits

README.md   first local repository   21 minutes ago
demo.txt   This is the demo file before modifications   3 minutes ago

README.md

#RAMYA

hello

- Pull the changes in your git repo to your local machine git directory named "gitlocal" and check the status for the modifications done in that repo. This time demo should be visible in your local machine.

```
[gitlocal $git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/ramya-creator/gitlocal
   4fe91f3..218fbe1  main       -> origin/main
Updating 4fe91f3..218fbe1
Fast-forward
 demo.txt | 1 +
 1 file changed, 1 insertion(+)
```
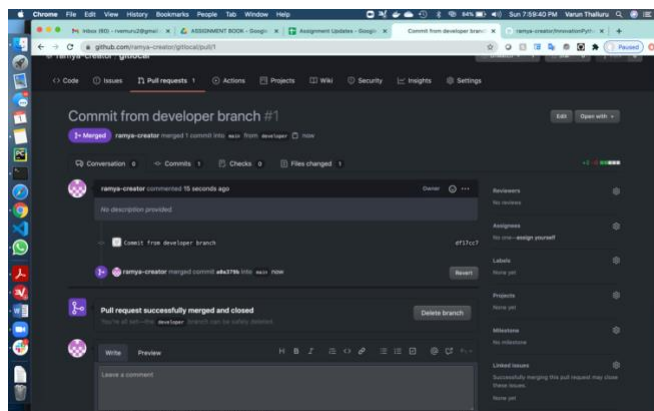
- Now make a new branch in your local machine with the name "developer".

```
[gitlocal $git checkout -b developer
Switched to a new branch 'developer'
gitlocal $
```

- Edit that demo file and write some content in that eg: "This is a demo file after modification" and push the modifications to your GitHub repo from the developer branch with a commitmessage "Commit from developer branch".

- Go to the GitHub console and generate a merge request to master branch after checking the modifications.

- After merging you could see the modified content in the demo file. Now revert back to the previous version from terminal.
  After switching back to the previous version your demo file should have the content: This is a demo file before modification.

```
gitlocal $git log
commit b507736261daeb3866eee30ed8f568df8a5b3b72 (HEAD -> developer)
Author: Ramya Vemuru <rvemuru2@gmail.com>
Date:   Wed Nov 4 10:59:11 2020 -0600

    commit from developer branch

commit 4fe91f3f50998998c5d5f5042b043d6daf284cfe
Author: Varun Thalluru <vthalluru2@apple.com>
Date:   Sun Nov 1 19:40:12 2020 -0600

    This is the demo file before modifications

commit ab27009a6394ddda22e608b3afa1a81d1ed86667
Author: Varun Thalluru <vthalluru2@apple.com>
Date:   Sun Nov 1 19:21:55 2020 -0600

    first local repository
gitlocal $git revert b507736261daeb3866eee30ed8f568df8a5b3b72
[developer 786de4f] Revert "commit from developer branch"
 1 file changed, 1 deletion(-)
gitlocal $
```

- At the end delete the developer branch.