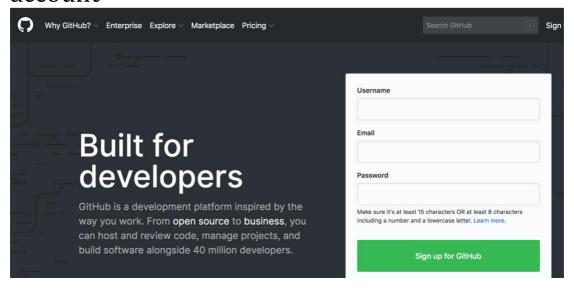
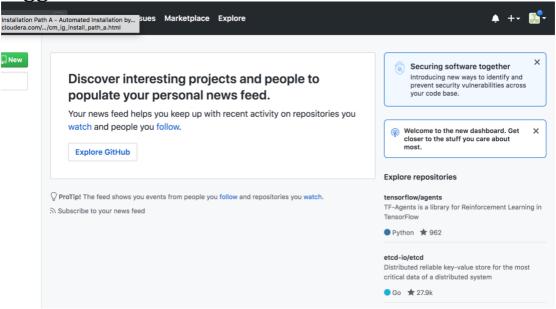
Exercise:Creating a GitHub Repository

Step 1: Go to github.com and signup for github account



Step 2: You will see the below screen once logged in.



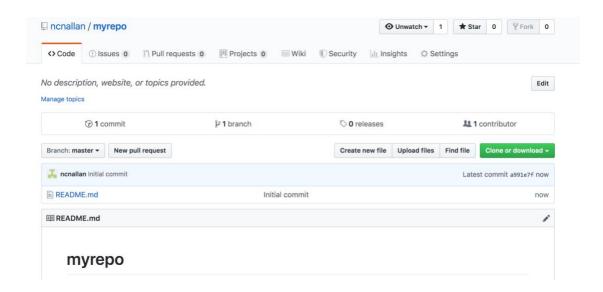
Step 3: Click the "+" sign at the top right corner and click New Repository.



Step 4: Enter a repository name of your choice, enter optional description, use the default selection Public(Free account) and click "**Initialize this repository with a README**" and Click "**Create Repository**"

☐ myrepo Great repository names are short and memorable. Need inspiration? How about	
Great repository names are short and memorable. Need inspiration? How about	
	it expert-spoon?
Description (optional)	
Public Anyone can see this repository. You choose who can commit.	
Anyone can see this repository, You choose who can commit.	
Private	
You choose who can see and commit to this repository.	
Skip this step if you're importing an existing repository.	
Initialize this repository with a README	
This will let you immediately clone the repository to your computer.	

Step 5: You will see the below empty project with a README file.



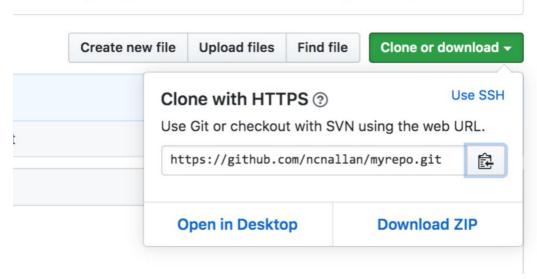
Step 6: Using the terminal create a directory in /home/devops names "myrepo"

mkdir myrepo cd myrepo

Step 7: Initialize the repository

\$ git init

Step 8: Connect your local repository to Git hub repository. Copy the github URL from the github site(Click clone or Download and click copy)

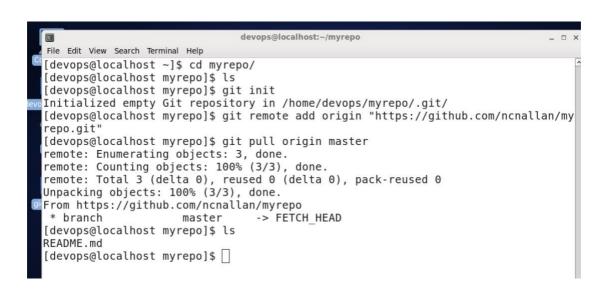


\$ git remote add origin
https://github.com/ncnallan/myrepo.git

\$ git remote set-url origin
https://ncnallan@github.com/ncnallan/myrep
o.git
(add your github username before the
github.com)

Step 9: Use git pull command to pull the data/files from github in to your local repository to synchronize.

\$ git pull origin main

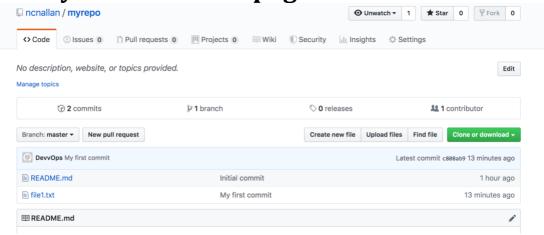


Step 10: Create a file in "myrepo" and add it to staging and local repo. Then push the changes to central repository in git hub. Enter the

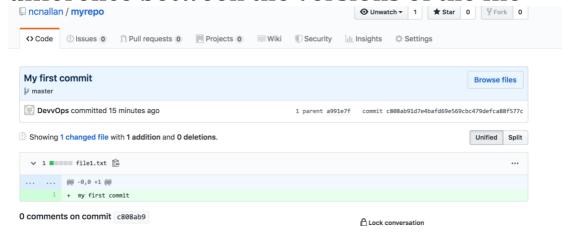
password of your github account when prompted

- \$ echo "First commit"> file1.txt
 \$ git add .
 \$ git commit -m "My first commit"
- \$ git push origin master

The file can be found in your github account after you refresh the page.



Click the comment against the file to see the difference between the versions of the file



Step 11: Modify the file in your local repo and again sync with cental repository and observe the differences in github

```
$ echo "new changes" >> file1.txt
$git add .
$git commit -m "modified text in file"
$ git push origin master
```

```
devops@localhost:~/myrepo
 File Edit View Search Terminal Help
[devops@localhost myrepo]$ git commit -m "modified text in file"
[master 5cd8032] modified text in file
 Committer: DevvOps <devops@localhost.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:
    git config --global user.name "Your Name"
    git config --global user.email you@example.com
If the identity used for this commit is wrong, you can fix it with:
    git commit --amend --author='Your Name <you@example.com>'
 1 files changed, 1 insertions(+), 0 deletions(-)
[devops@localhost myrepo]$ git push origin master
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 325 bytes, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://ncnallan@github.com/ncnallan/myrepo.git
   c808ab9..5cd8032 master -> master
 [devops@localhost myrepo]$
```

refresh the github page to see the differences between the uploads

Step 12: Add a new file in github and synchronize with the local repository Click Create New File and add a name and content for the file. Click commit.

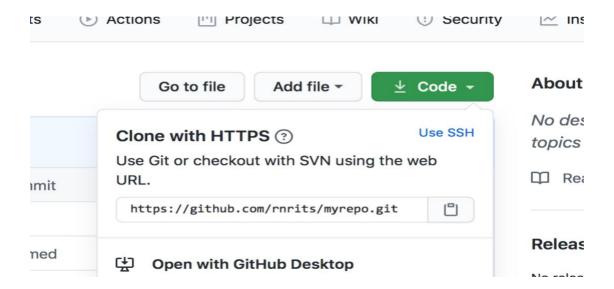
Step 13: Synchronize with local repository

\$ git pull origin master

```
devops@localhost:~/myrepo
  File Edit View Search Terminal Help
 [devops@localhost myrepo]$ git pull origin master
 remote: Enumerating objects: 4, done.
 remote: Counting objects: 100% (4/4), 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), done.
 From https://github.com/ncnallan/myrepo
                                  -> FETCH HEAD
                       master
 Updating 5cd8032..cb5ff23
 Fast-forward
  githubfile.txt |
                       1 +
  1 files changed, 1 insertions(+), 0 deletions(-)
  create mode 100644 githubfile.txt
 [devops@localhost myrepo]$ ls
 file1.txt githubfile.txt README.md
 [devops@localhost myrepo]$ 🛮
```

TO clone a new repo in the local machine

Step 1: Copy the github URL from the github site (Click Code Button and click copy the URL) and run the following command in git bash to configure your local repository to the central github repository



\$ git clone https://github.com/rnrits/myrepo.git \$ git remote set-url origin https://rnrits@github.com/rnrits/myrepo.git (add your github username before the github.com)

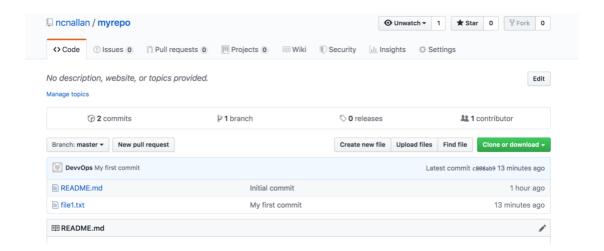
Step 2: Move to the myrepo directory and check the contents

```
$ cd mynewrepo
$ ls
```

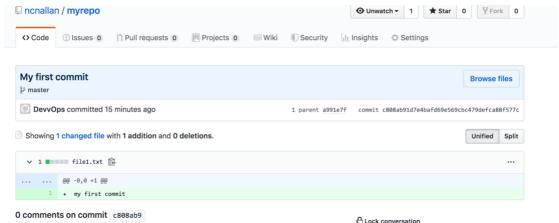
Step 3: Create a file in "myrepo" and add it to staging and local repo. Then push the changes to central repository in git hub. Enter the Personal token of your github account when prompted

```
$ echo "First commit"> file1.txt
$ git add .
$ git commit -m "My first commit"
$ git push
```

The file can be found in your github account after you refresh the page.



Click the comment against the file to see the difference between the versions of the file



Step 4: Modify the file in your local repo and again sync with central repository and observe the differences in github

\$ echo "new changes" >>file1.txt \$git add . \$git commit -m "modified text in file" \$ git push

```
devops@localhost:~/myrepo
File Edit View Search Terminal Help
[devops@localhost myrepo]$ git commit -m "modified text in file"
[master 5cd8032] modified text in file
Committer: DevvOps <devops@localhost.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:
    git config --global user.name "Your Name"
    git config --global user.email you@example.com
If the identity used for this commit is wrong, you can fix it with:
    git commit --amend --author='Your Name <you@example.com>'
 1 files changed, 1 insertions(+), 0 deletions(-)
[devops@localhost myrepo]$ git push origin master
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 325 bytes, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://ncnallan@github.com/ncnallan/myrepo.git
c808ab9..5cd8032 master -> master [devops@localhost myrepo]$
```

refresh the github page to see the differences between the uploads

Step 5: Add a new content to the file in github and synchronize with the local repository Click commit.

Step 6: Synchronize with local repository

```
$ git pull
$ ls
```

Step 7: Renaming files in Git

```
$ git mv file1 file2
$ git add .
$ git commit -m "commit message"
$ git push
```

Step 8: Deleting a file

\$ git rm file1
\$ git add .
\$ git commit -m "commit message"
\$ git push origin main
The file will be deleted from the central repository also

Step 9: Finding the differences between a file in local repo and github central repo

- \$ git fetch origin main
- \$ git diff origin/main -- file3.txt