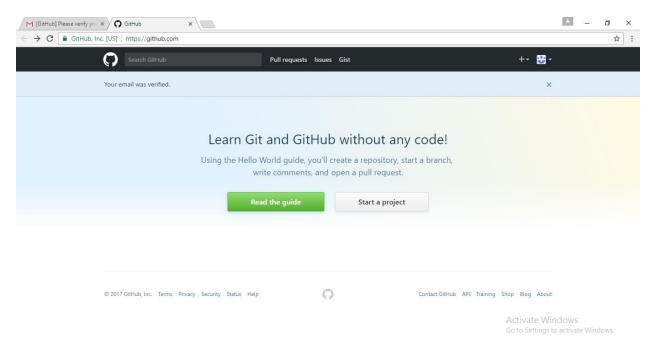
- For Remote repository
- Create online Account https://github.com/ and get your account verified by Email



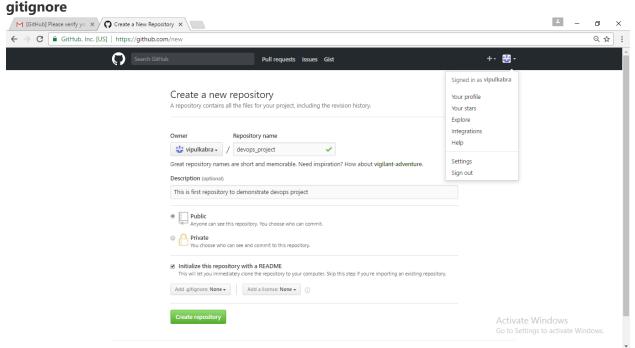
Click on "Start a Project" and create repository

Provide name for repository and small description

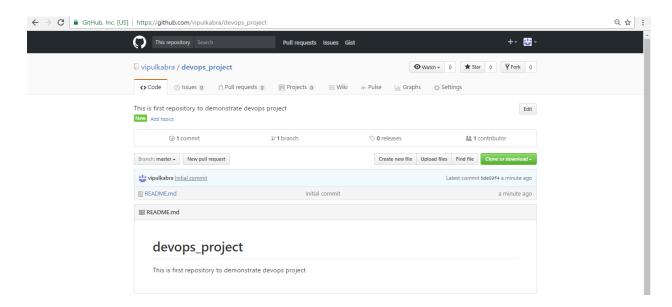
Choose Private or Public (Public will be open to all will be free, Private will be paid one)

Check box **Initialize this repository with a README** this will add readme file when repository is created

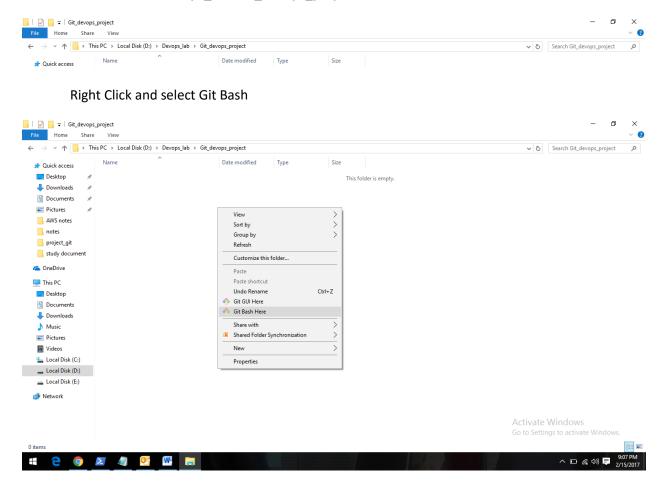
If you want to add any file that need to be not checked in and check out add them in



Click on Create repository which will create repository for you with readme file



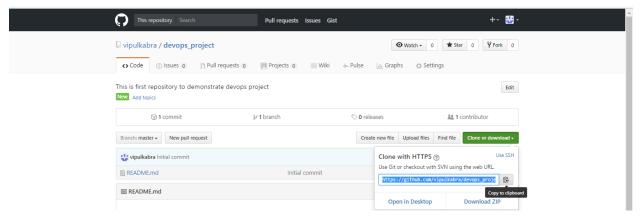
- ♣ For Local repository
- Create a directory where you need to maintain Git Local repository
 In this case D:/Devops_lab/Git_devops_project



 Once you are in GIT bash to create repository you need to provide below command Git Init

To link local repository to remote repository

Go to Git Hub remote repository and get url link and copy the same as shown below



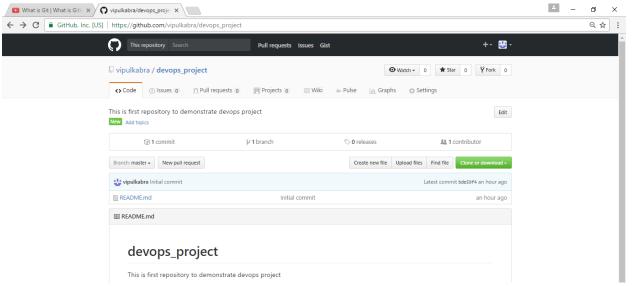
Give below command

Git remote add origin "https://github.com/vipulkabra/devops project.git"

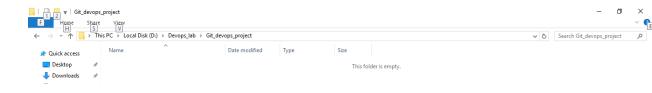


This will link your local and remote repository

To get all files from remote repository added to your local repository we use pull command
 In remote repository we have readme file as shown below



Whereas local repository is blank as shown below



To add remote repository all file to local repository in this case Readme file we use below command

Git pull origin master

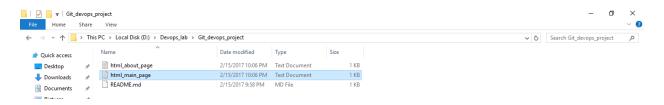
```
vipul@vipul MINGw64 /d/Devops_lab/Git_devops_project (master)

$ git pull origin master
remote: Countring objects: 3, done.
remote: Countring objects: 100% (2/2), done.
remote: Compressing objects: 100% (2/2), don
```

Now in local repository you will find readme file has been added as shown below



Git operation on changes (add, status, commit)
 Create some file in local repository (html_main_page, html_about_page) add some text to it



To check the Git status use below command this will display what new file been added highlighted in red.

Git status

Now say out of this 2 files you need one to be added to staging area we use below command Git add html main page.txt

Also we will check the status since out of 2 we have added 1 file only so will use below command to check status as we did earlier

Git Status

```
signiferror MINGN64 /d/Devops_lab/Git_devops_project (master)

$ git status
Un branch master
Untracked files..." to include in what will be committed)

html_main_page.txt

nthing added to commit but untracked files present (use "git add" to track)

vipulevipul MINGN64 /d/Devops_lab/Git_devops_project (master)

$ git add html_about_page.txt

vipulevipul MINGN64 /d/Devops_lab/Git_devops_project (master)

$ git status

$ git status

On branch master

Changes to be committed:
(use "git reset HEAD cfiles..." to unstage)

new file: html_about_page.txt

Untracked.files...
(use "git add cfiles..." to include in what will be committed)

html_main_page.txt

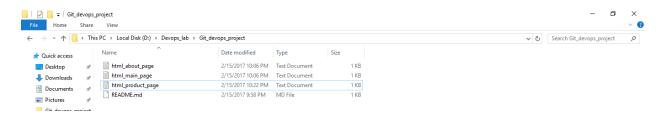
sipul@vipul MINGN64 /d/Devops_lab/Git_devops_project (master)

MINGN64 /d/Devops_lab/Git_devops_project (master)

MINGN64 /d/Devops_lab/Git_devops_project (master)
```

We have seen before adding 2 files where in red when we gave Git status command
After adding 1 file and checking status It have shown added file in green and one which we have
not added is still in red. This mean the one showing in green is ready to commit

Now let see how to add multiple file. So far we have one file which needs to be added. We will create one more text file so we have 2 file and will add both in one go. We have added html_product_page here



Let us give Git status to see if we have multiple file ready to add in staging area

Git status

```
MINGW64/d/Devops_lab/Git_devops_project — □ ×

vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (master)

5 git status

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: html_about_page.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)

html_main_page.txt

product_page.txt

vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (master)

5 |
```

We can see her new product file added and along with earlier main page in red so this 2 file is ready to move in staging area, lets add now multiple file in one command to staging area. Use below command to do so

Git add -A (Use A in capital here)

To check if file added we will again use Git status

```
MINGW64/d/Devops_lab/Git_devops_project

- □ ×

inal@vipul_MINGW64 /d/Devops_lab/Git_devops_project (master)

5 git status
On branch master
Changes to be committed:
(use "git reset H&AD cfile>..." to unstage)

new file: html_about_page.txt

Untracked files:
(use "git add cfile>..." to include in what will be committed)

html_product_page.txt

vipul@vipul_MINGW64 /d/Devops_lab/Git_devops_project (master)

5 git add -A

S git status
Changes to be committed:
(use "git reset H&AD cfile>..." to unstage)

new file: html_about_page.txt

vipul@vipul_MINGW64 /d/Devops_lab/Git_devops_project (master)

5 git status
Changes to be committed:
(use "git reset H&AD cfile>..." to unstage)

new file: html_about_page.txt

ripul@vipul_MINGW64 /d/Devops_lab/Git_devops_project (master)

5 |
```

We could see those 2 file have been added in staging area along with one we gave at initial so have all the 3 added here

Let's see how to commit and move all 3 file from staging area to local repository Use below commit command to do so

Git commit -a -m "first commit for main,about,product"

```
vipul@vipul NINGM64 /d/Devops_lab/Git_devops_project (master)

§ git status

On branch master

Clause "git reset NEAD cfile..." to unstage)

new file: html_about_page.txt

new file: html_abut_page.txt

new file: html_product_page.txt

new file: html_product_page.txt

vipul@vipul NINGM64 /d/Devops_lab/Git_devops_project (master)

finaster 4886360; first commit for masin.product.about

Committer: Vipul Kabra <Vipul Kabra

Vipul Rabra (vipul Rabra

Vipul Rabra

Vipul Rabra (vipul Rabra

Vipul Rabra

Vipul Rabra (vipul Rabra

Vipul Rabr
```

Your all 3 files has been commited and when we give status it says nothing to commit

You can check logs and track all commit that you made by using below command Git Log

Creating Branch and Switching Branch

To create branch and switch to new branch use below command

Git branch finance

Git checkout finance

Introducing file in new branch lets add one file say html_price_page in finance branch

Let us add and commit this file using below command

Git status

Git add html price page

Git commit html price page -m "introduce price page"

What has happen now is the new branch you created and file added will be shown in new branch and not in master branch however new branch will show files of master branch as well

Let's switch branch to Master and LS to see what all you see using below command

Git checkout Master

<u>Ls</u>

```
      MINGW64/d/Devops_lab/Git_devops_project
      —
      □
      X

      vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (finance)
      Sit Checkout master
      Sit Checkout master
```

Here you cannot see the file that we added in new branch as html_price_page.txt

Lets switch back to finance branch and list what we have using below command

Git checkout Finance

<u>Ls</u>

```
vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (finance)
$ git checkout master'
vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (master)
$ little_labout_page.txt html_main_page.txt html_product_page.txt README.md
vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (master)
$ git checkout finance
$ witched to branch "finance'
vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (finance)
$ 15
$ little_labout_page.txt html_main_page.txt html_price_page.txt html_product_page.txt README.md

vipul@vipul MINGW64 /d/Devops_lab/Git_devops_project (finance)
$ 15
```

You will see here you have html_price_page.txt whereas same was not present in main branch.

Merging Branch

In order to merge branch you have to be in main branch and give below command in our case we have to be in Master branch to merge finance branch.

Use below command

```
git checkout master

ls
git merge finance
ls
```

♣ To Add all your work in remote repository

Produce ssh key using below command

<u>Ssh-keygen</u> (no space all continue for all other parameter just space enter)

To get SSH ket give below command

CAT / c/Users / vipul / . ssh / id_rsa.pub (Location will be found on above screen)

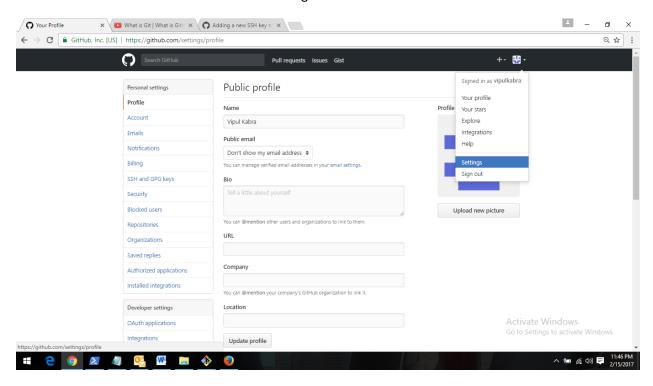
You will get SSH key which needs to be copied this is public ssh key

ssh-rsa

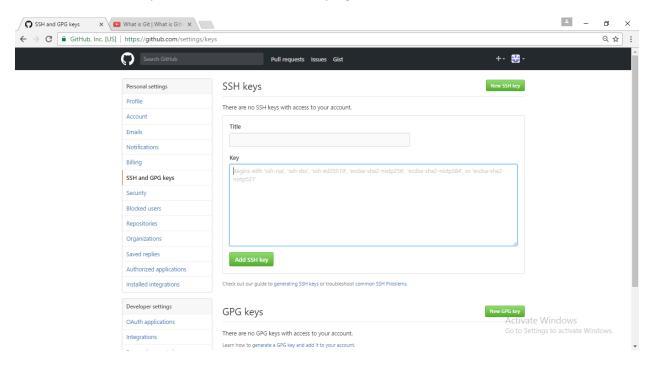
AAAAB3NzaC1yc2EAAAADAQABAAABAQDDv8XltRRDGmF4tgoUn0HUS4zZFPEIrdmIrxeMvZRea0mBw7YdRD38Yq3wNbUArb4nHDIZCzQ9IZKfQtwAYktyTlDYUEHHoxj6XYY/ySkDxFntA8nEasBtEbKSwFqEjXY2Jti49wnu4d7n5JNahm3cKc073AX1bjIReBzF4KLTLvMSGmyHoJwVK2VAKEiQ39CS6gjuFy9oFb0sc2ebnK9PEdhy1vLYN16r6D5PviqvM86PNwUCjudFsbGiDdObMCjfQFPhDN56hPPwhmeXqoqYrpgdti8g4pFbUtxNijAmc93d7qlPZwKX/POOREvCC0H2Rr+4iuEeYo7Lh5vsEQxl vipul@vipul

To add this key

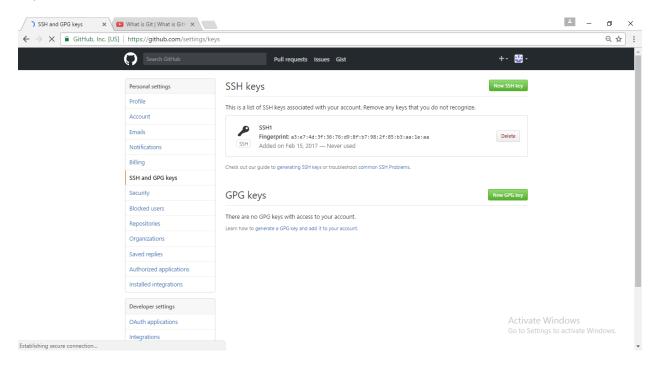
Go to Get Hub account → Setting



Select SSH and GPG key and select new to add on top right hand side



Provide SSH key title and paste key that we produced from Bash and select add SSH key this will add SSH key

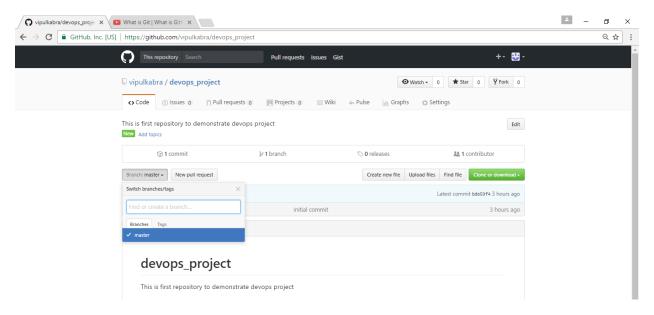


Go back to bash and give below command

Ssh -t git@github.com

To add your branch to remote repository

If you see in remote repository you don't have any branch added since they are in local at the moment

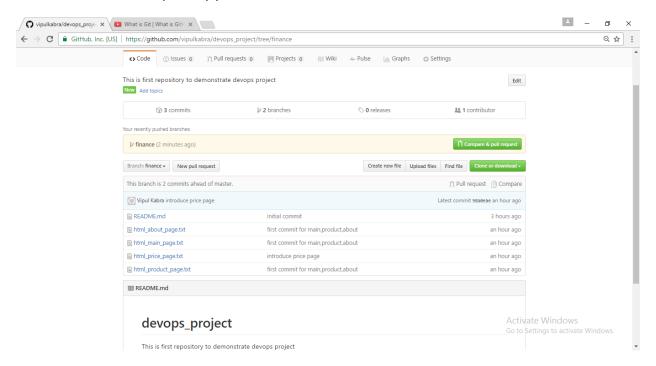


Git checkout finance

Git push origin finance

Pop up for Git hub user id and password provide the same

Check Git hub remote repository your all local file will be added with branch



Now your branch local repository is in sync with remote repository , you can do same for master as well

git push origin master

git checkout master

