**Github**

Useful commands : <https://dzone.com/articles/top-20-git-commands-with-examples>

1. Create account in GitHub

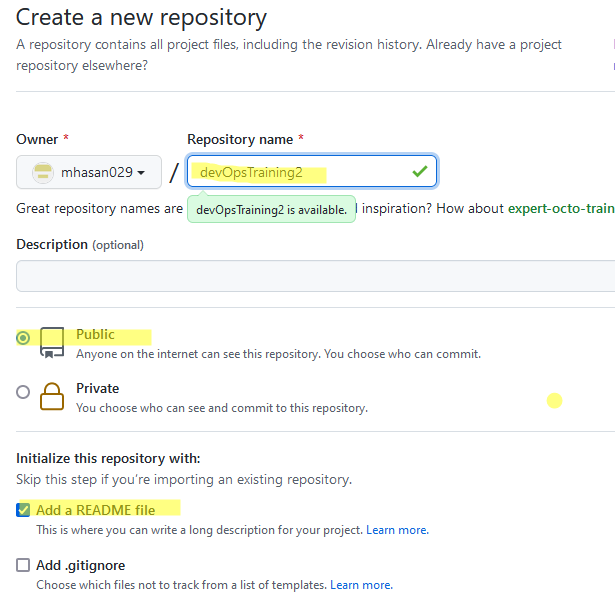
<https://github.com>

2. Create repository by click new:

2.1 set repository name

2.2 make it public

2.3 add readme file



3. install gitbash from this link :

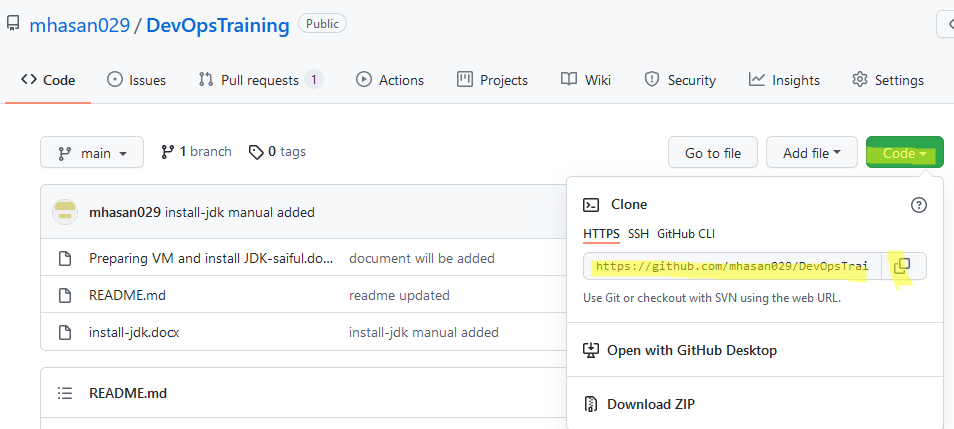
[https://git-scm.com/download/win](https://git-scm.com/download/win 4)

[4](https://git-scm.com/download/win 4). In windows maching go to the folder where you clone github folder

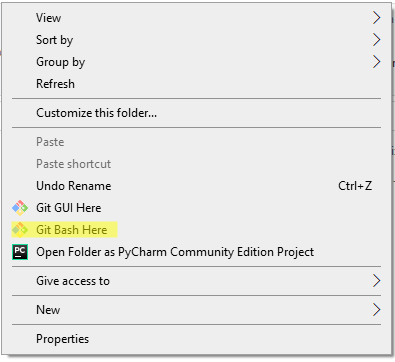
D:\DevOps\GithubTest

Copy github repository location which need to clone

Click on code and copy the link:

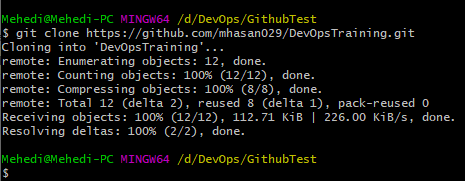


5. go to the directory in windows machine and open git bash here by right click

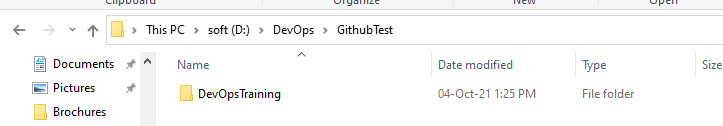


5.1 clone repository from github

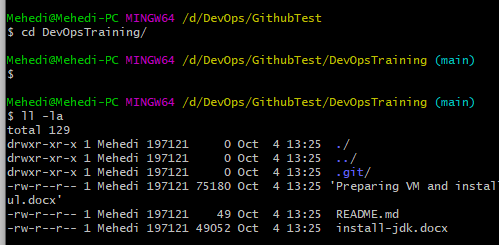
git clone <https://github.com/mhasan029/DevOpsTraining.git>



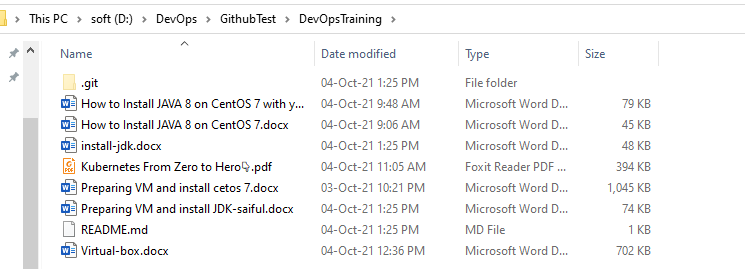
5.2 in windows machine, we will get the repository now



5.3 enter the folder



5.4 copy new files in this folder



5.5 add them

git add .

5.6 now connect with github account

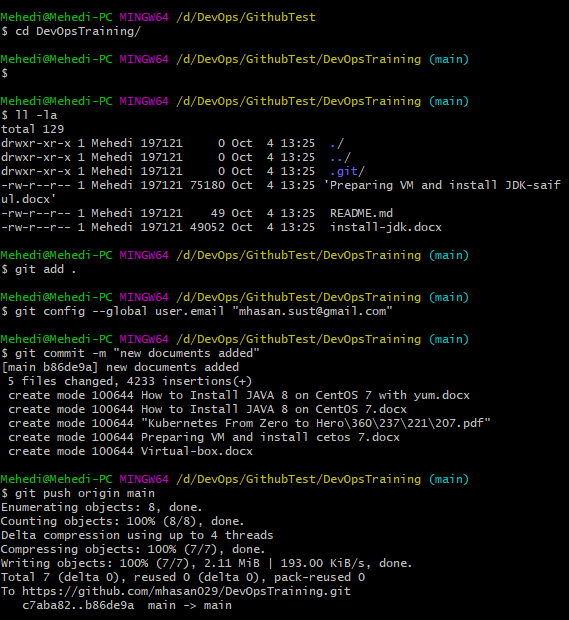
git config --global user.email "mhasan.sust@gmail.com"

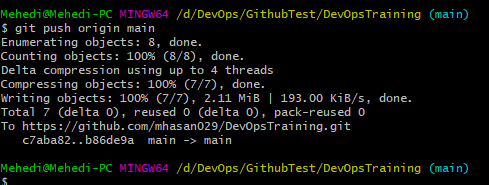
5.7 comments added with commit command

git commit -m "document will be added"

5.8 now push those resource to github repository under main branch

git push origin main





**Task :**

* Pull data from github to main branch
* Create new branch i.e chanchalb001
* New file create under new branch
* File moved to new branch
* Now moved that changes files to main branch by pull request (web github)
* Now sync laptop with github (Mehedi-Laptop)

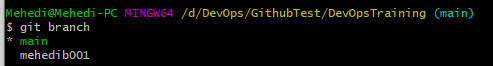
**Step-1 : create new branch, file create and push data to github**

Command :

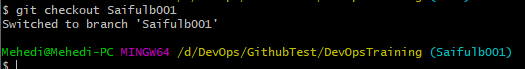
Go to laptop directory : D:\DevOps\GithubTest\DevOpsTraining

Right click and open git bash here

* *git branch //to view all branches name and current branch location*



* *git branch Saifulb001 //to add new branch*
* *git checkout Saifulb001 //Switched to branch Saifulb001*

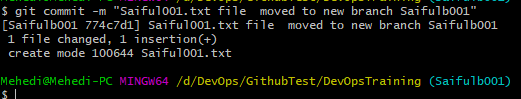


* *create new file Saiful001.txt //from laptop*
* *git add .*

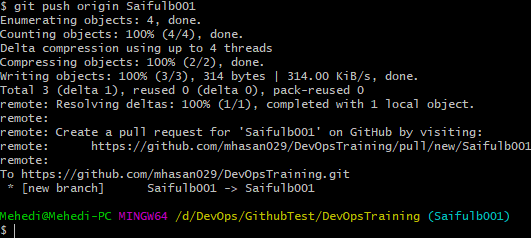
*or for specific file*

git add Saiful001.txt

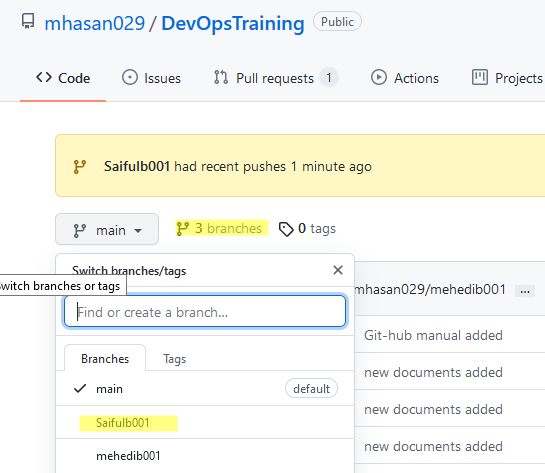
* *git commit -m "*Saiful001.txt file  *moved to new branch Saifulb001"*

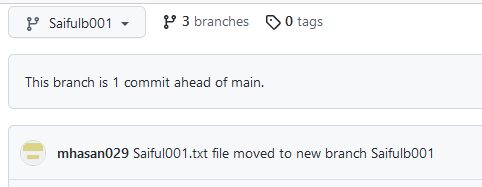


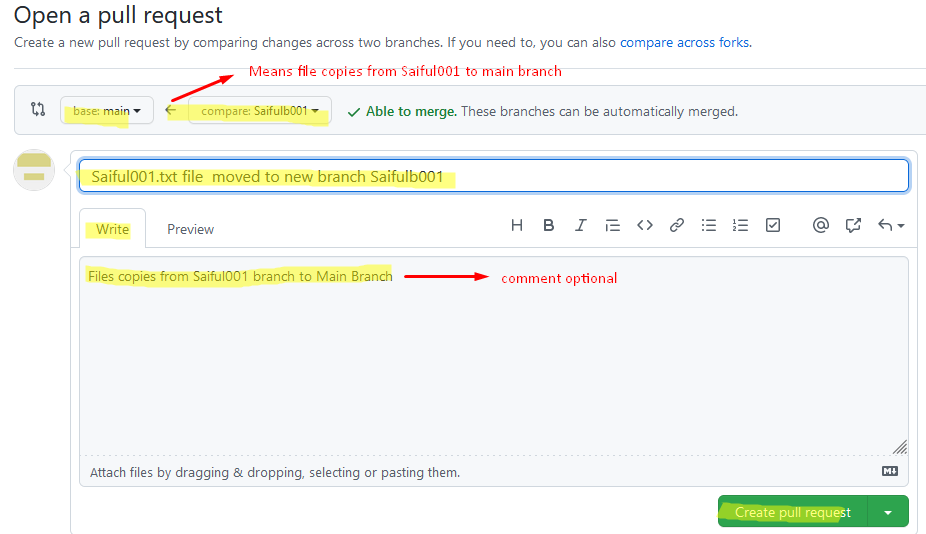
* *git push origin Saifulb001 //until we push new branch, we can’t get that branch in github*



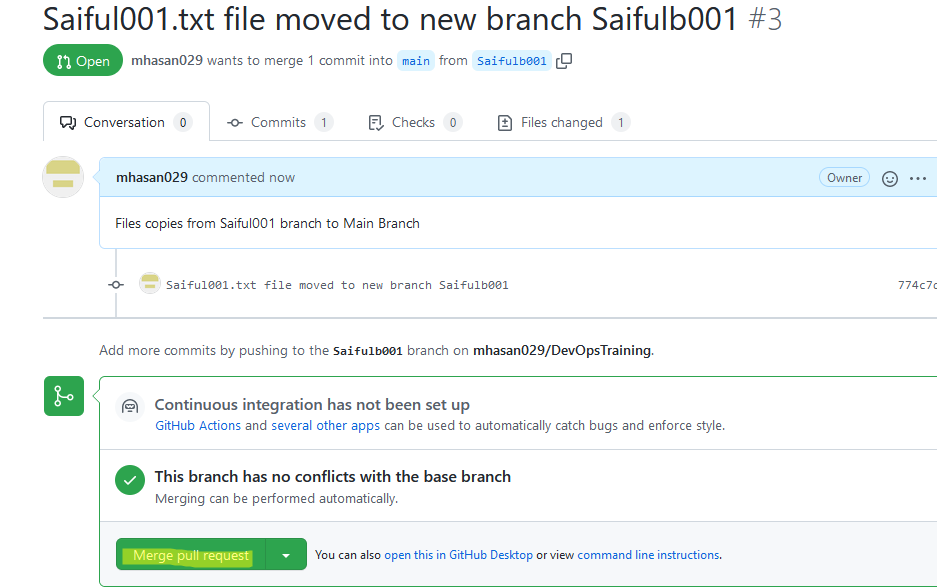
**Now in github showing 3 branch**



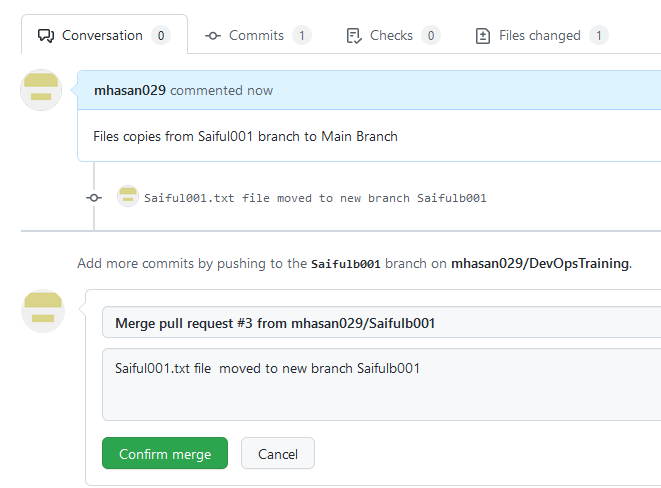


**Step-2 : Now main brach and Saiful001 branch difference is only file Saiful001.txt.  
Now from github web panel, we need to pull those changes and new files to main branch.  
Go to github and click : compare & pull request -> create pull request**

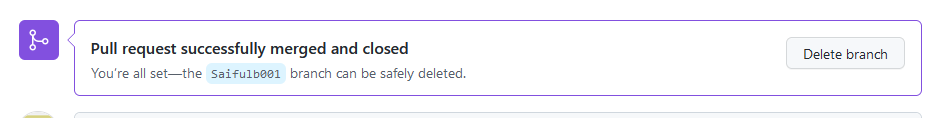
**Then press merge pull request:**



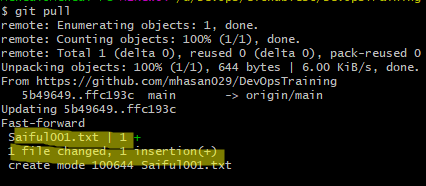
**Then press confirm merge:**



**Finally this message will be shown :**



**Step-3 : This changes done in github main branch. Now we need to sync laptop clone folder with main branch**

* *git branch*
* *git checkout main //switch to main branch*
* *git pull //pull all the changes from github to pc*

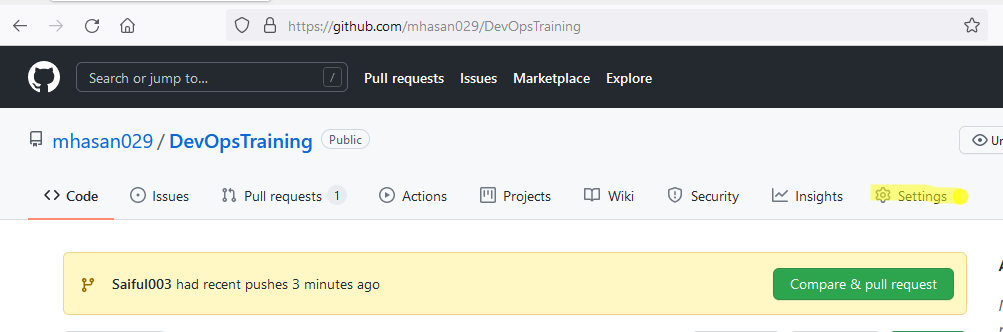
**Task :**

* add another account and give access to a particular branch
* From that account, he will push his code to that branch
* Finally need to move data from that particular branch to main branch
* Then sync laptop clone folder with github

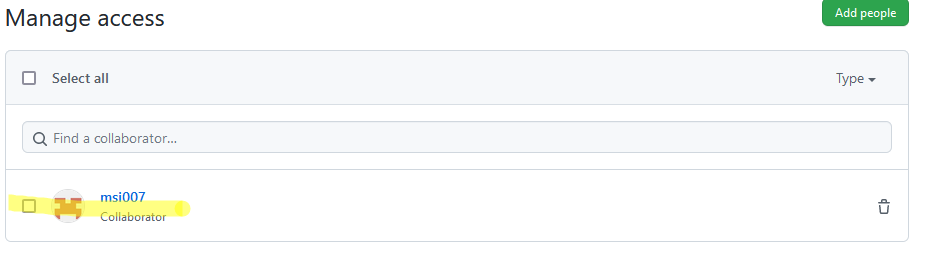
Step1 : First need to create one branch and push to github

Step2 : add another usr account and inform him to load his code in Saiful003 branch (from : web ->settings -> manage access -> add people -> add email id

saifcse05@gmail.com



After added it will show like this



Step3: Saiful need to approve that invite from his mail

Step4: Now Saiful, need to clone Saiful003 branch in his desktop and push new files in that folder

*git clone -b Saiful003* [*https://github.com/mhasan029/DevOpsTraining.git // Saiful003*](https://github.com/mhasan029/DevOpsTraining.git%20//%20Saiful003) *branch name*

*\*\*\*add/edit new/existing file under DevOpsTraining*

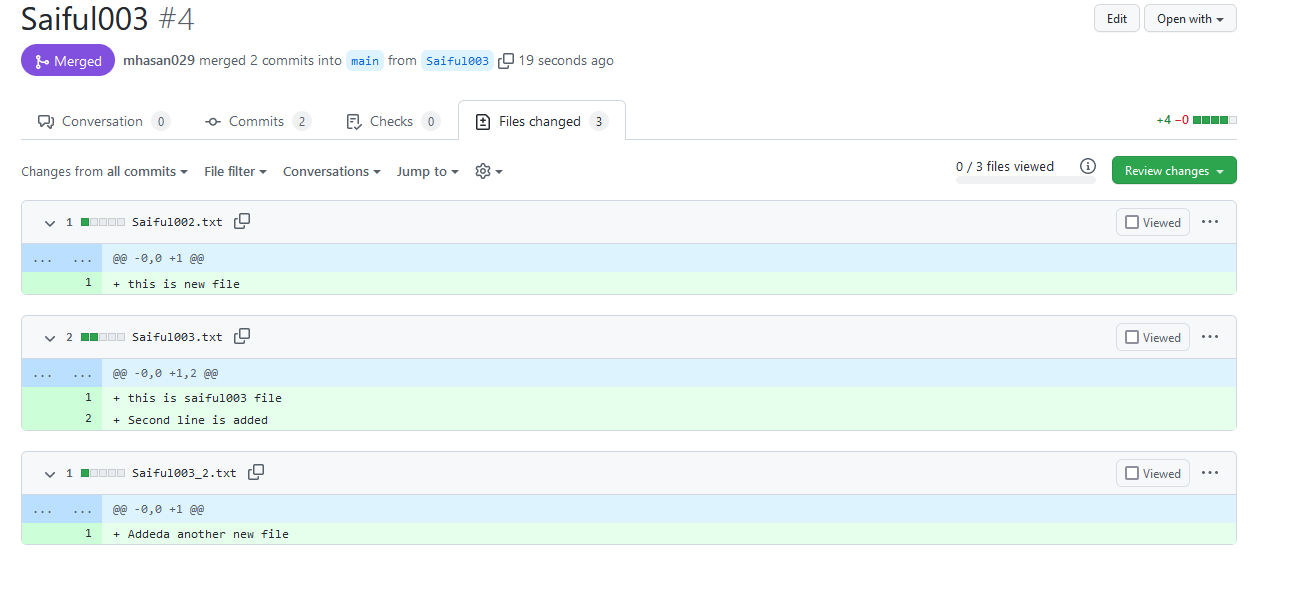
*cd DevOpsTraining/*

*git add .*

*git commit -m "input from Saiful"*

*git push origin Saiful003*

Step5 : After saiful push, need to create pull request and merge pull data from Saiful003 branch to main branch.  
During merge, we can get changes files information.

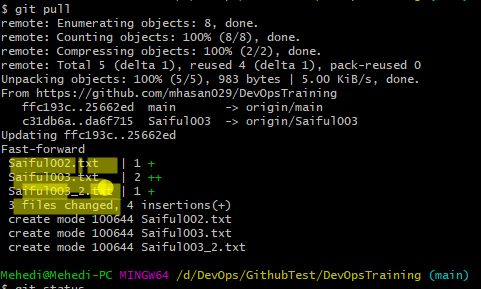


Step6: Now sync mehedi PC with github main branch

*git branch*

*git checkout main//switch to main branch*

*git pull //pull all the changes from github to pc*



*git status*

