GIT AND GITHUB

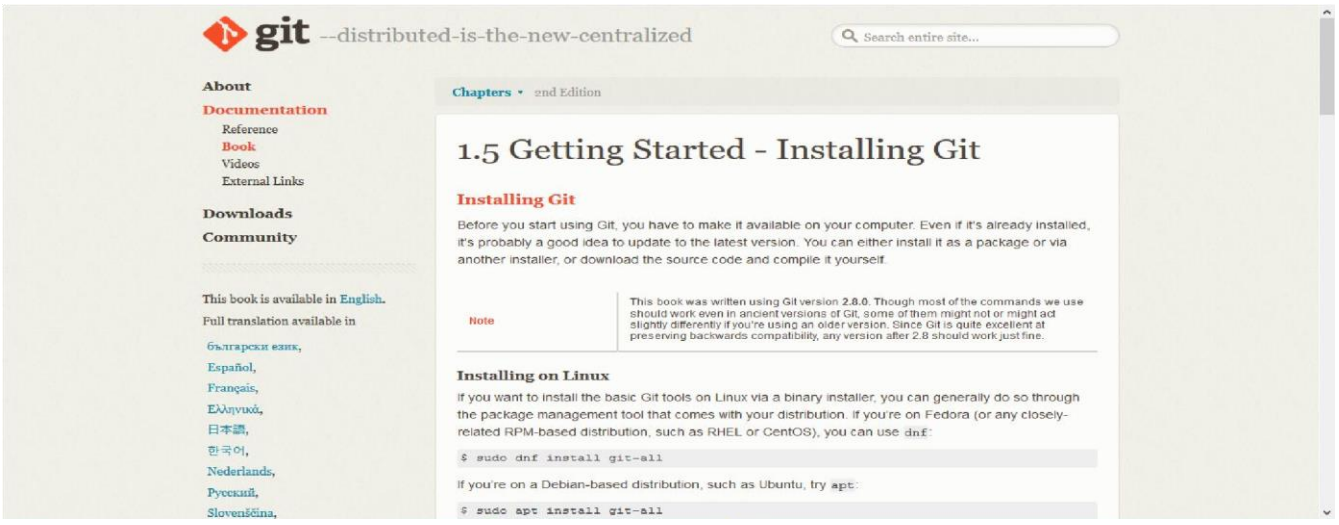
Tutorial 4

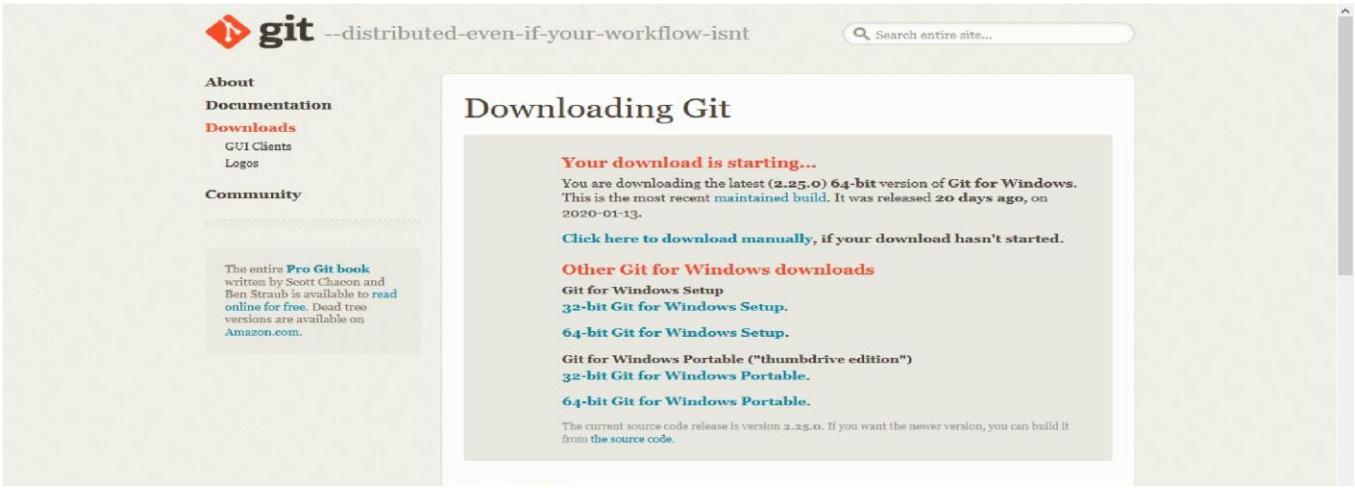
What is Git and Github?

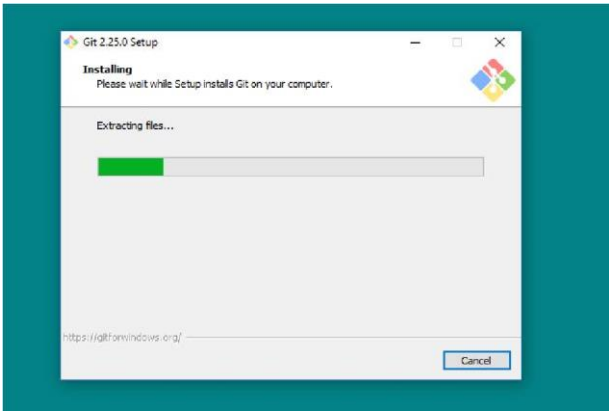
Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

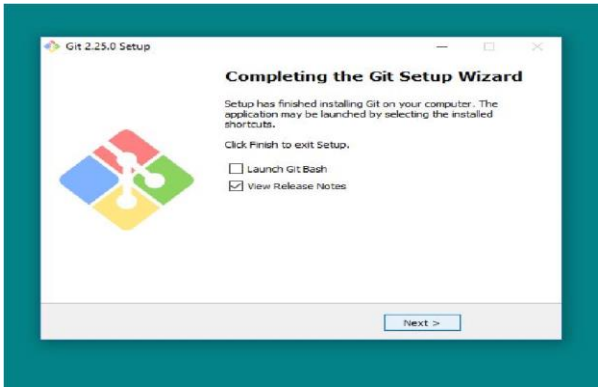
Github is cloud based hosting Service which allows you to manage git repositories.

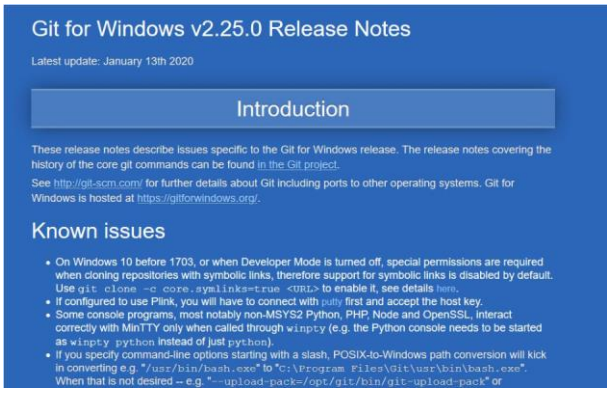
How to install Git?
Mac : http://git-scm.com/download/mac
Windows: http://git-scm.com/download/win



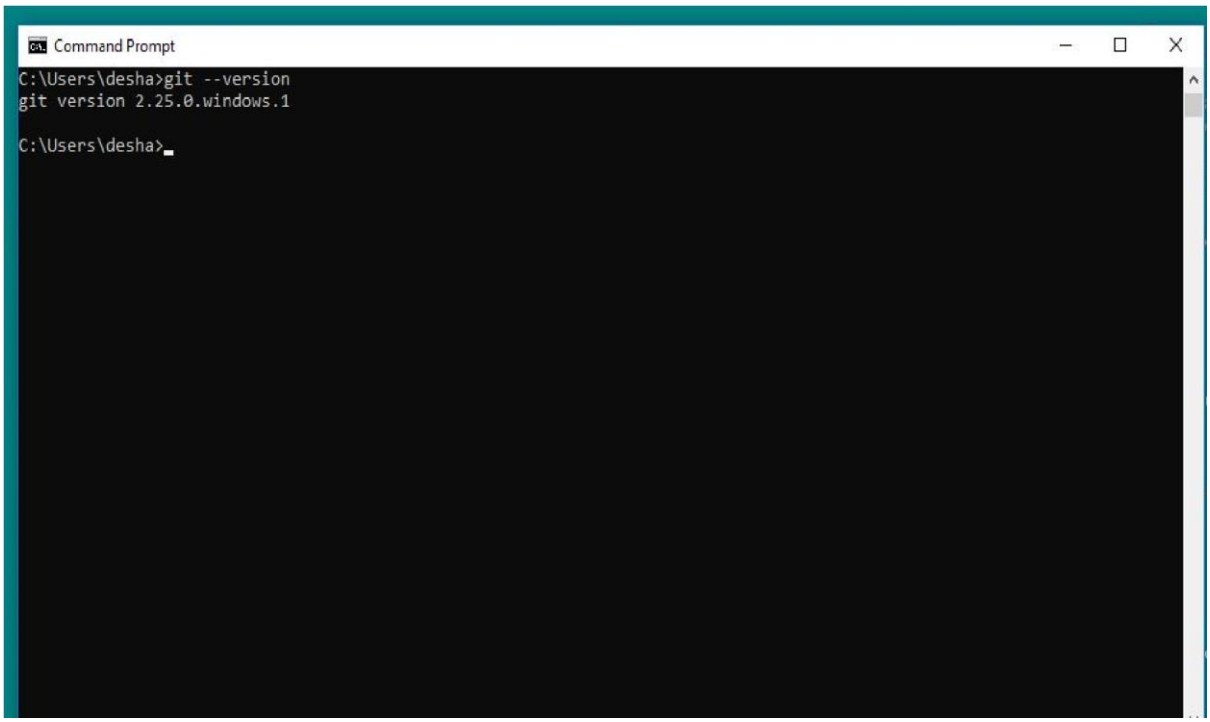






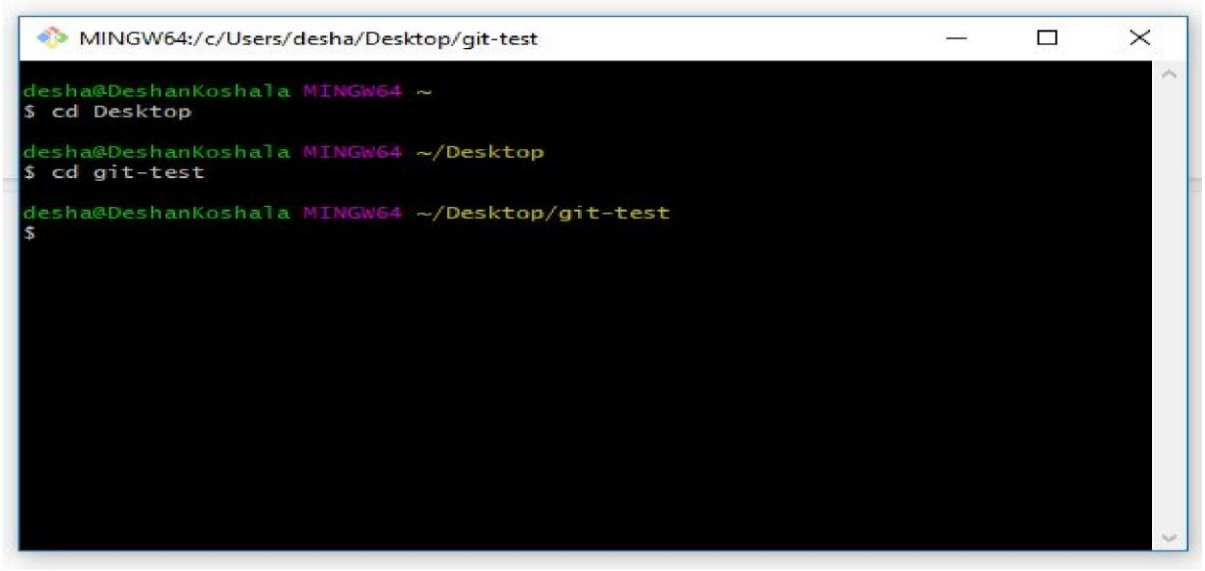


Use git --version to find your version.



How To use git?

1.Create a folder “git-test” in Desktop.
2. Open Git Bash.
3.Change your working directory to git-test.



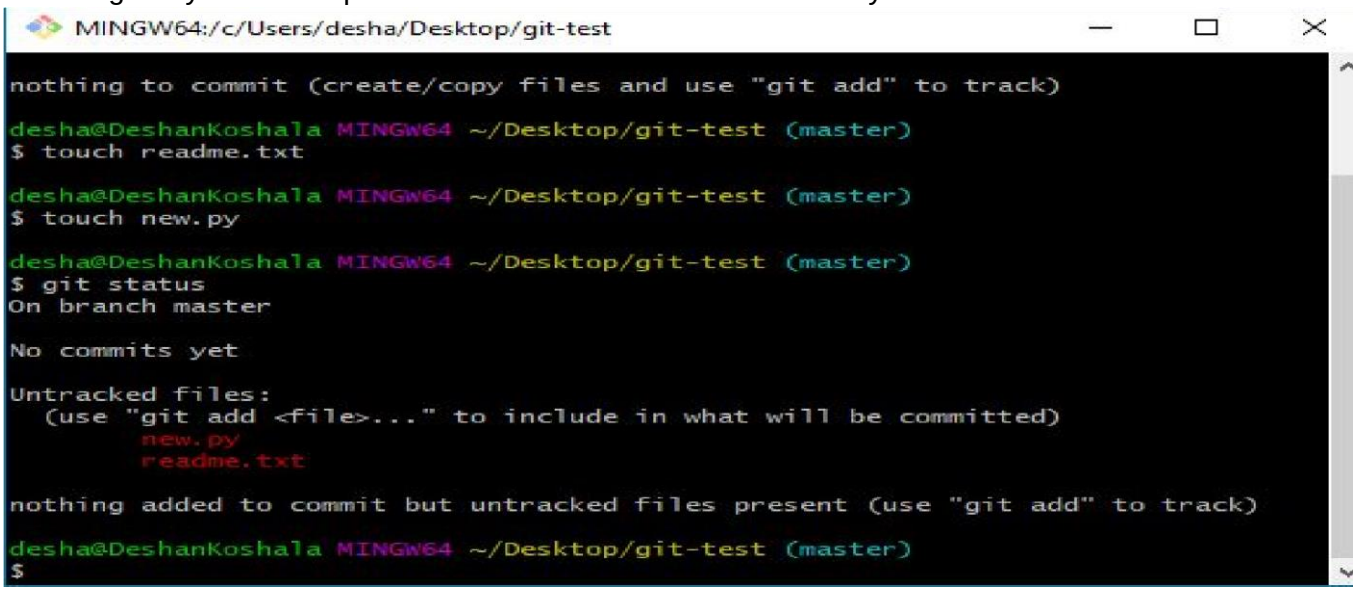
4. Use command **git init** command to creates a new **Git** repository

5.Create 2 files in the folder git-test

1. Readme.txt
2. new.py

6.Check for **git status**

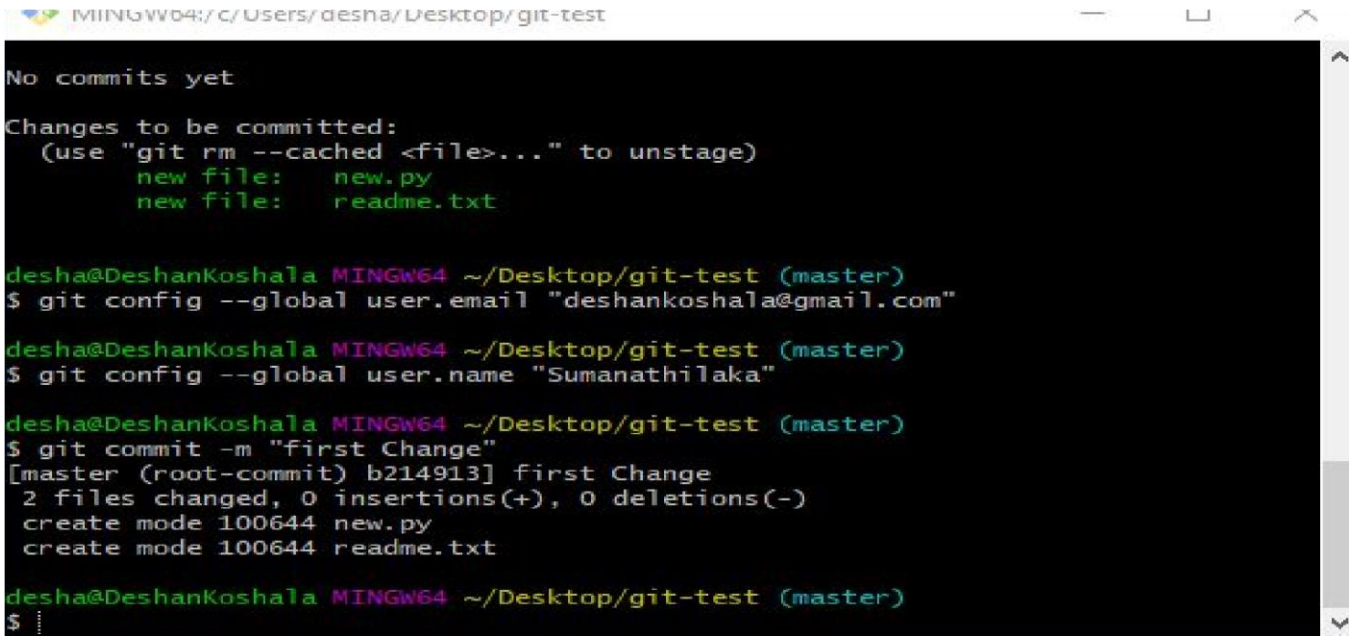
It gives you a description on commits and files in the directory.



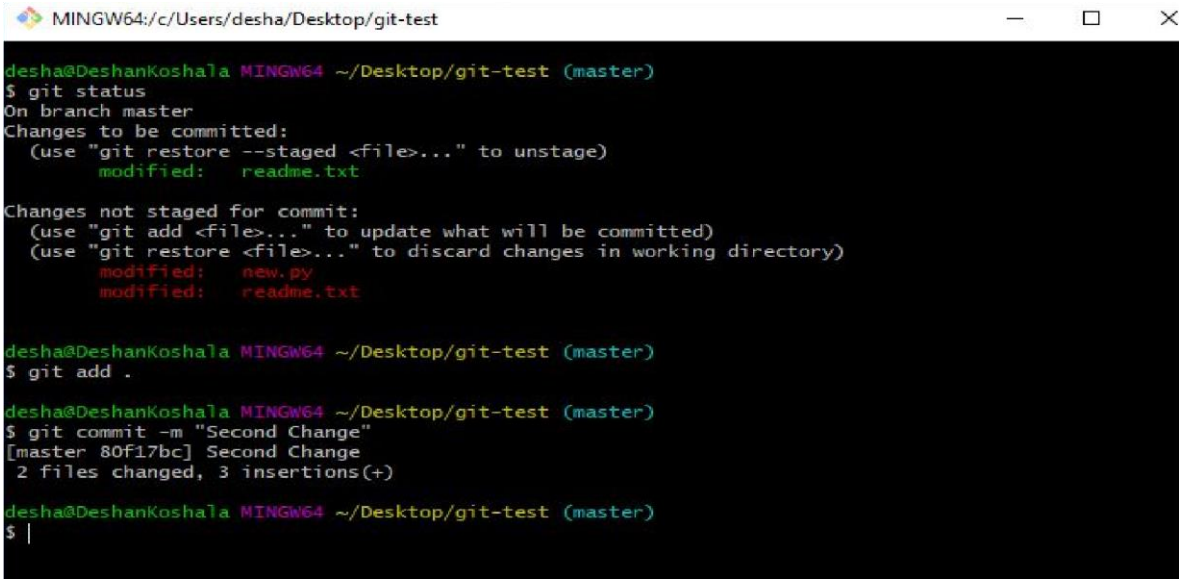
7.The "**git add**" command adds a change in the working directory to the staging area. It tells **Git** that you want to include updates to a particular file in the next commit.

8. Use Command **git commit -m "first change"** to save your changes to the local repository.

If you are performing the above task for the first time you should add your username and email details.

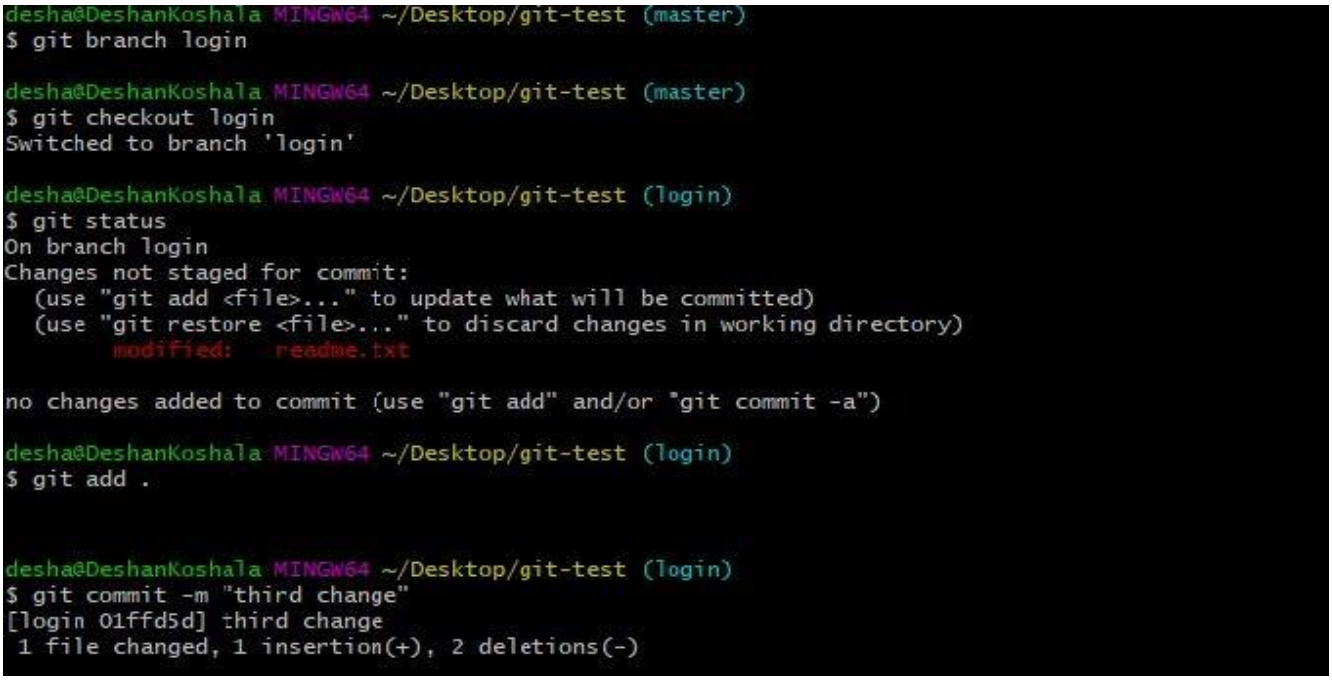


9. Do changes to your files readme.txt and new.py. Check for status. Use **git status.** Add files to the staging area and commit with the name second Change.



10. Use following commands to delete a file. **git rm --cached <filename>**

11. **Branch** in git. - In **Git**, branches are a part of your everyday development process. **Git** branches are effectively a pointer to a snapshot of your changes. When you want to add a new feature or fix a bug—no matter how big or how small—you spawn a new **branch** to encapsulate your changes. Use comment **git branch <Branch Name>**

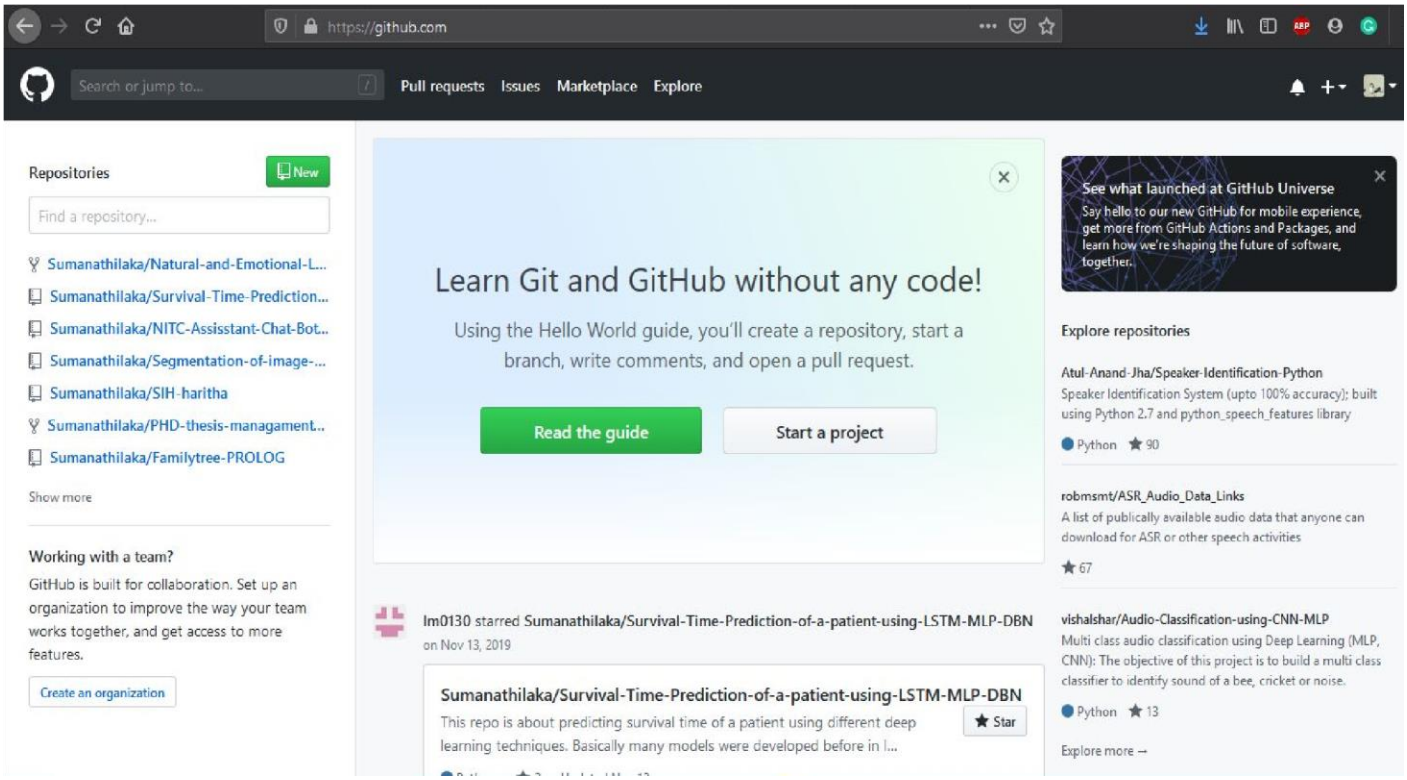


Use Command **git checkout <new Branch>** to switch the branch.Create a new file and also change the contents in the available files and do add and commit to the files. Now change the branch and identify the difference if each branch.

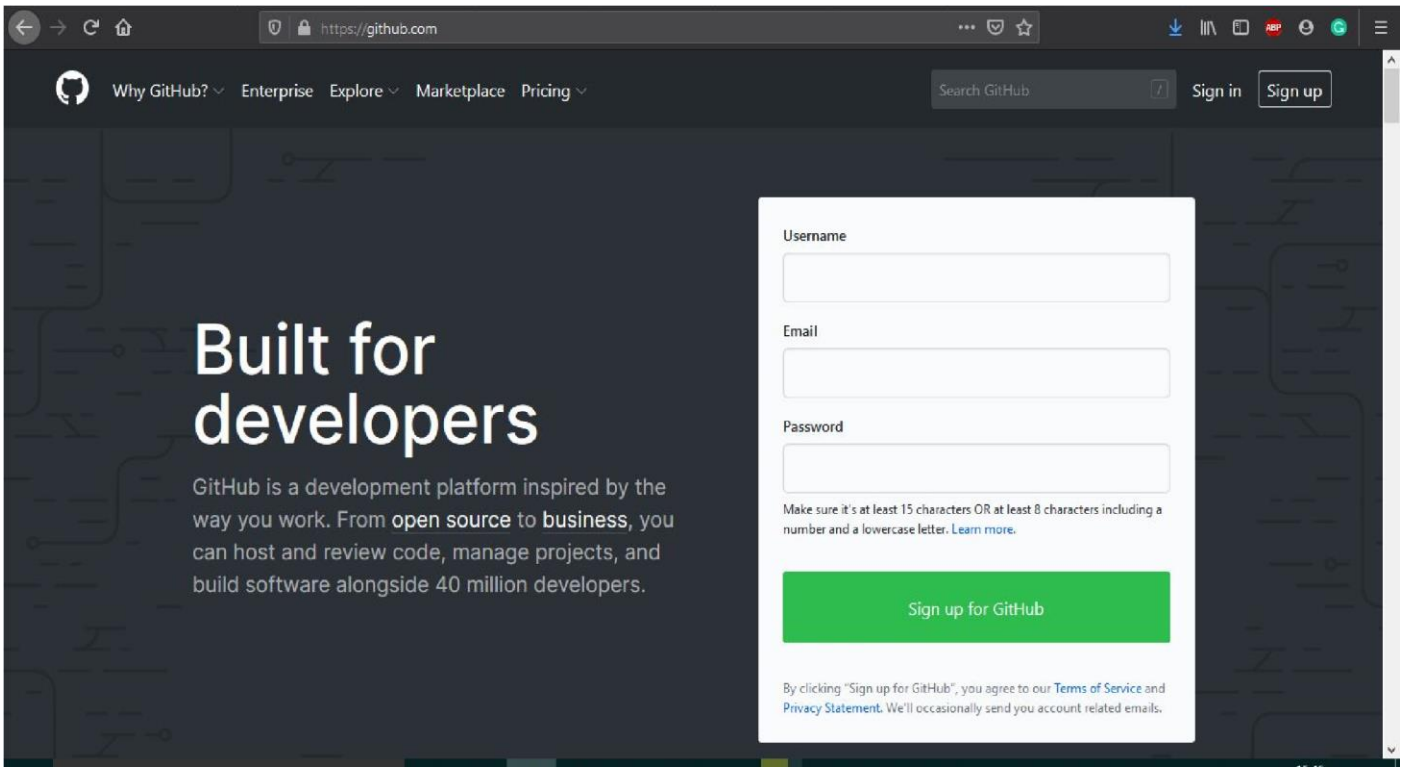
11. Find the Usage of command merge.

Git merge <>

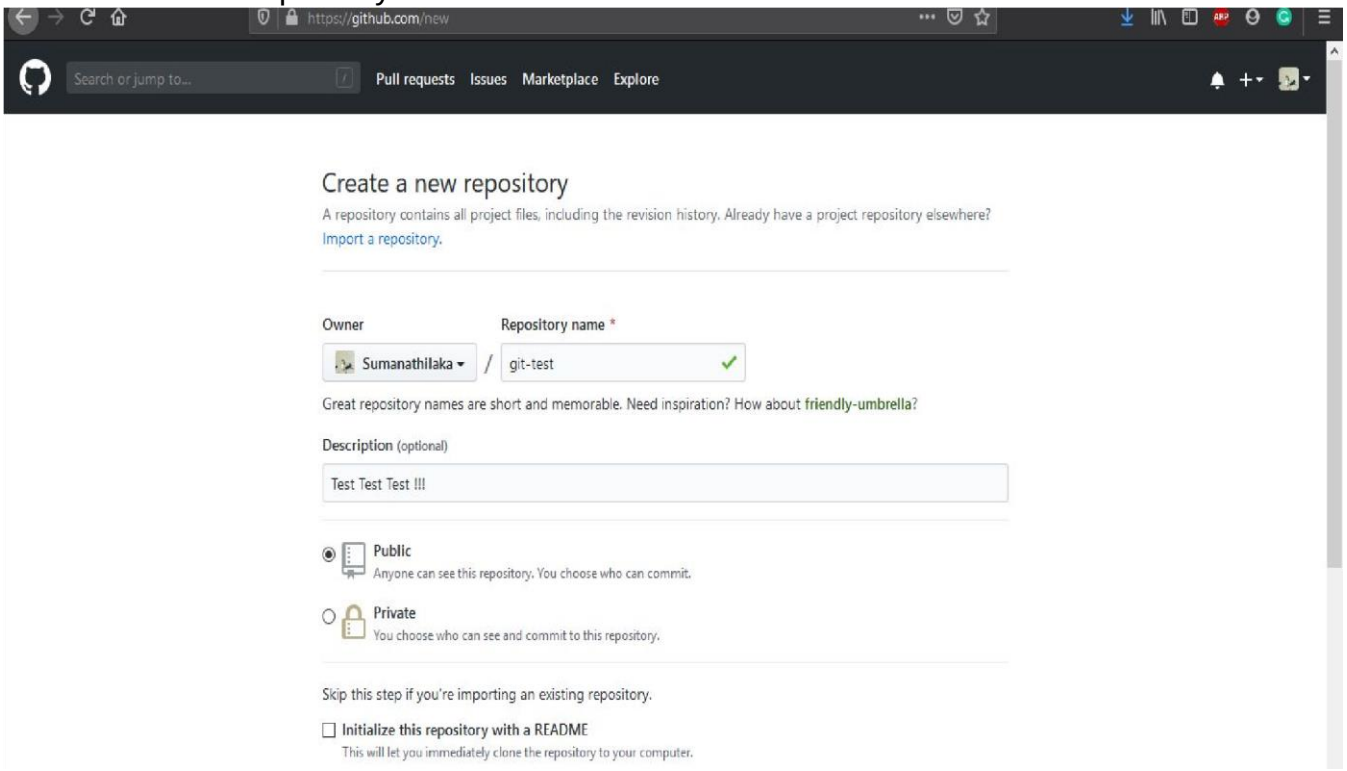
GIT HUB

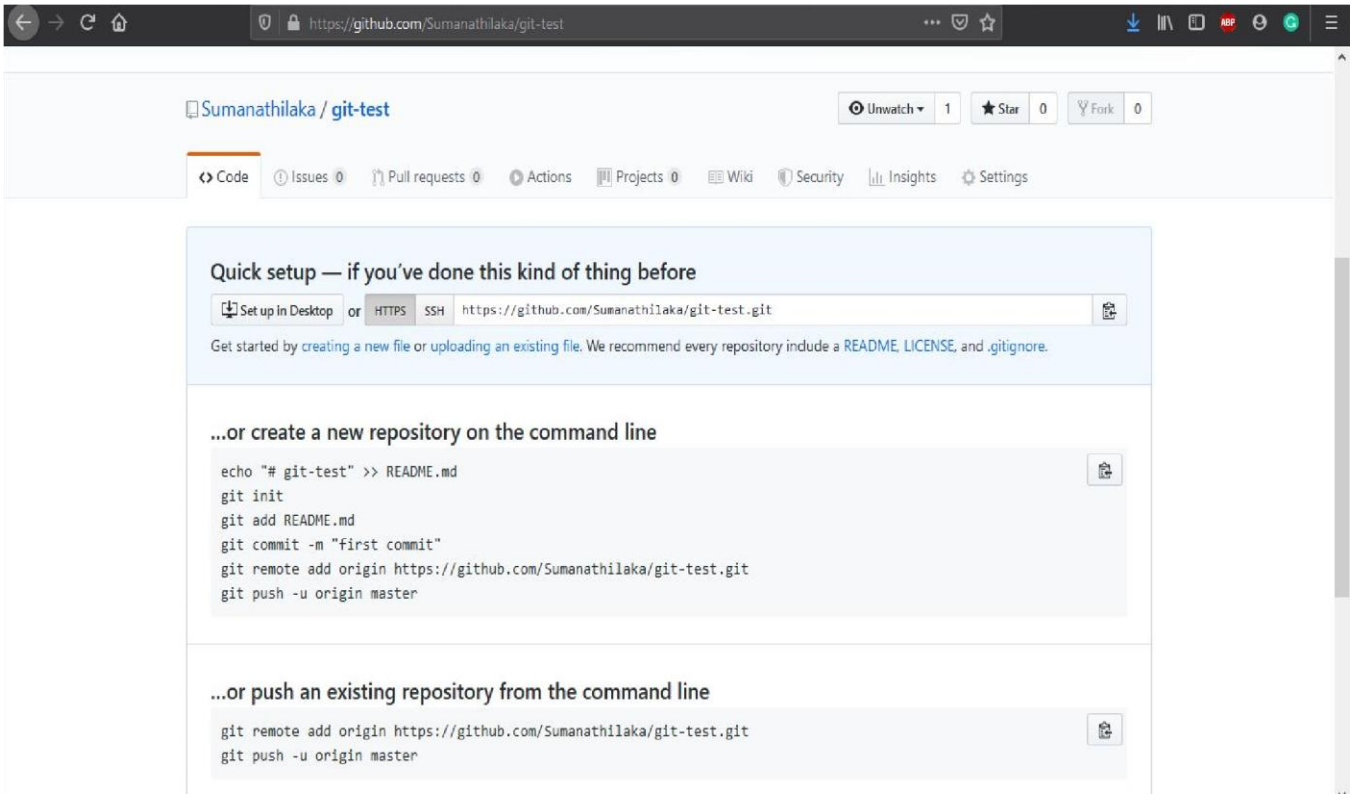


1.Create an account in Github - https://github.com/



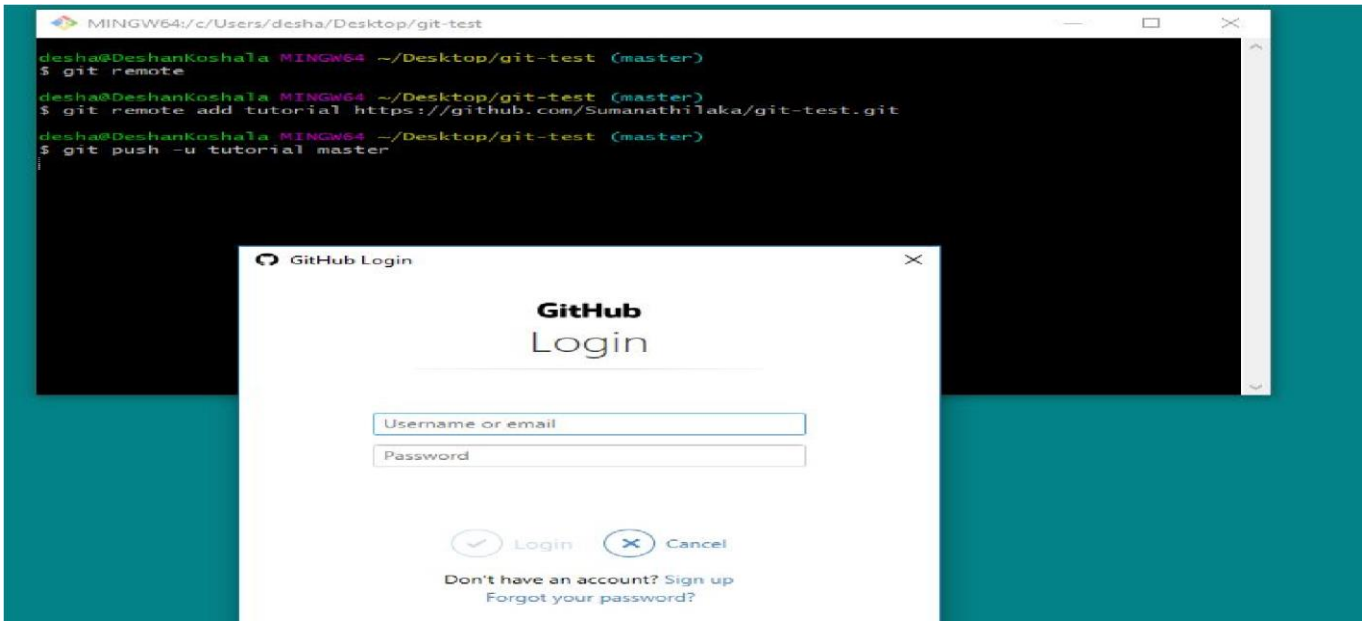
2. Create a new repository.

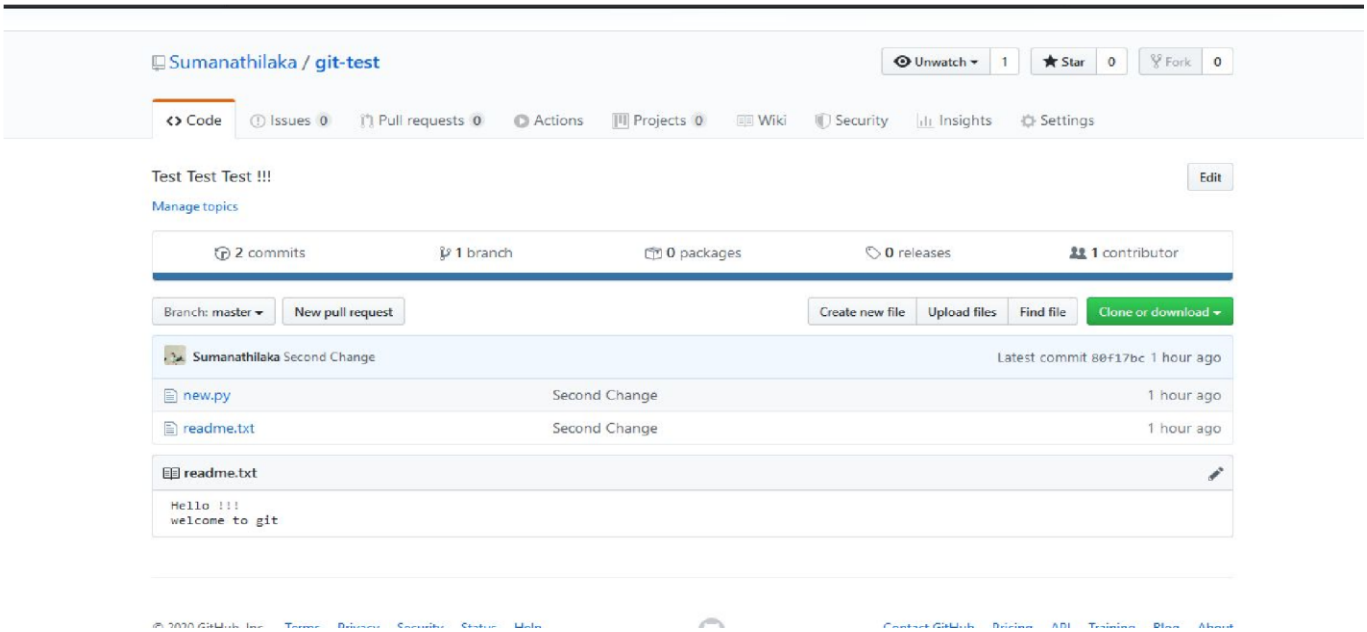




3.Use the following Commands.

git remote git remote add <name> <gitlink> git push -u <name> master





Add both master and login branches to github and check.