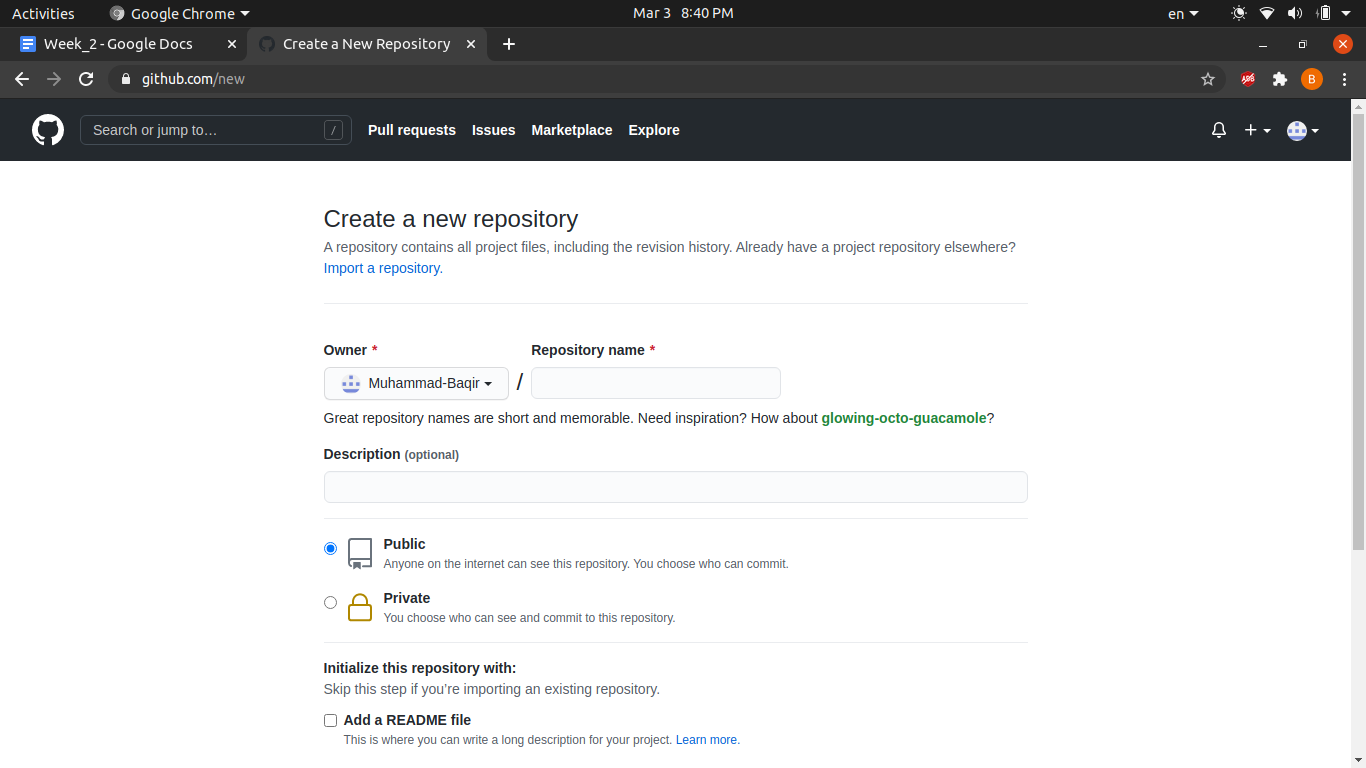
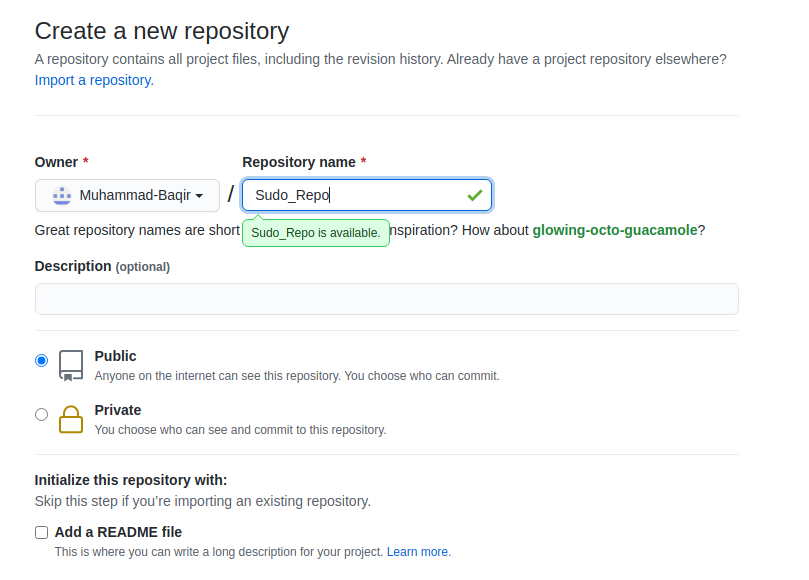
**Documentation of Week 2**

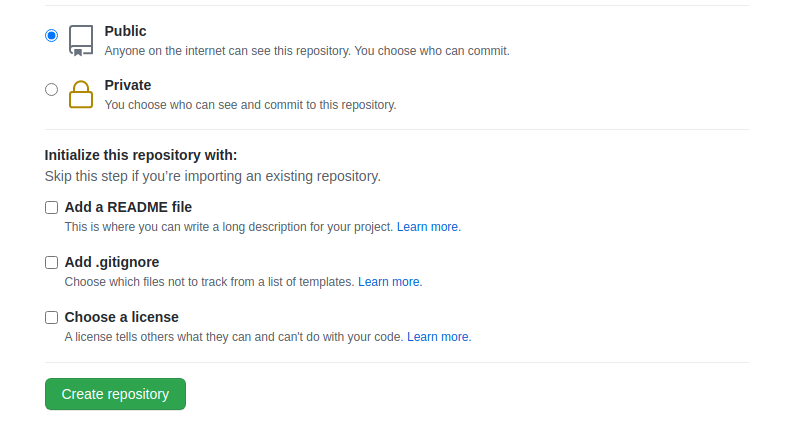
* **Lecture 3 Practice**
  + I am trying to create a new git repository and will run some commands of git for learning purposes. Details of each step is given with a screen shot.
  + **Step 1:** Create a repository on github website.
    - **Step 1.1:** Go to [github.com/new](https://github.com/new)

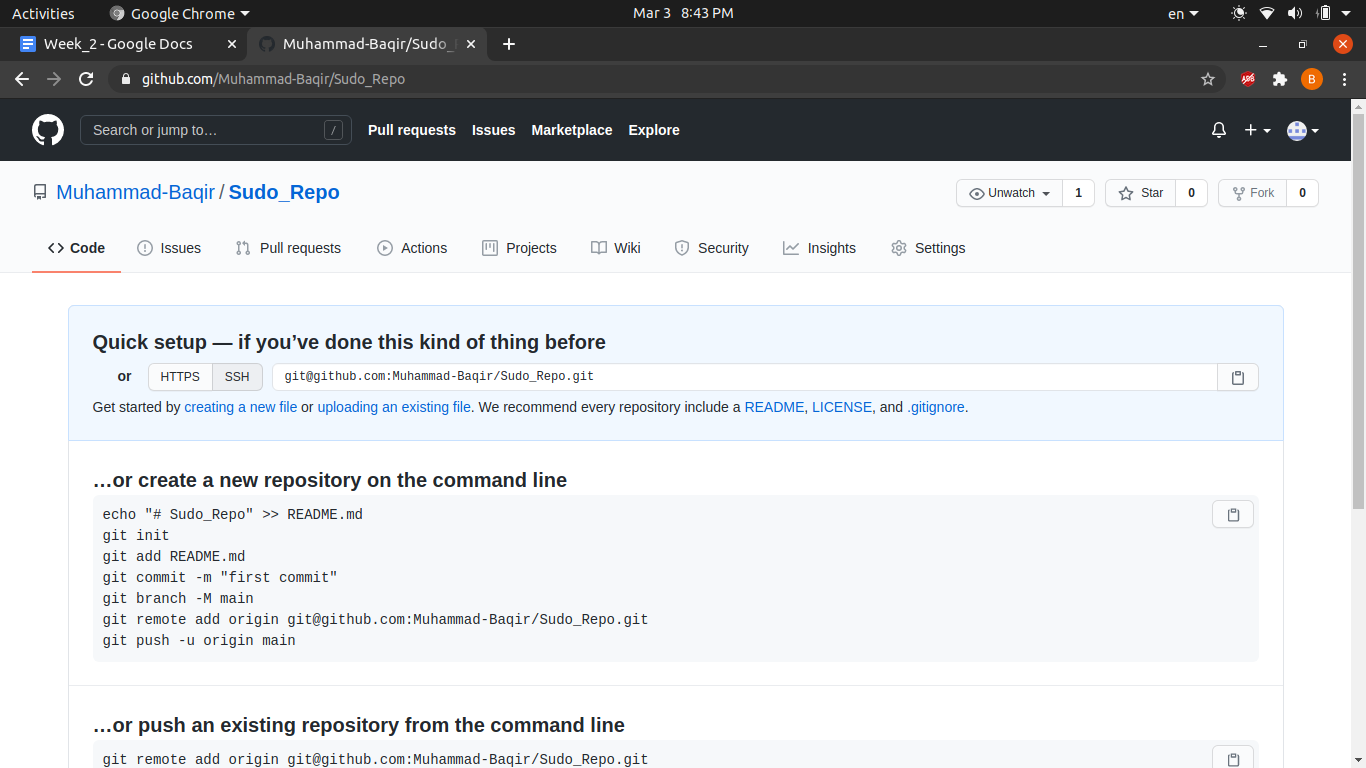


* + - **Step 1.2:** Enter repository name

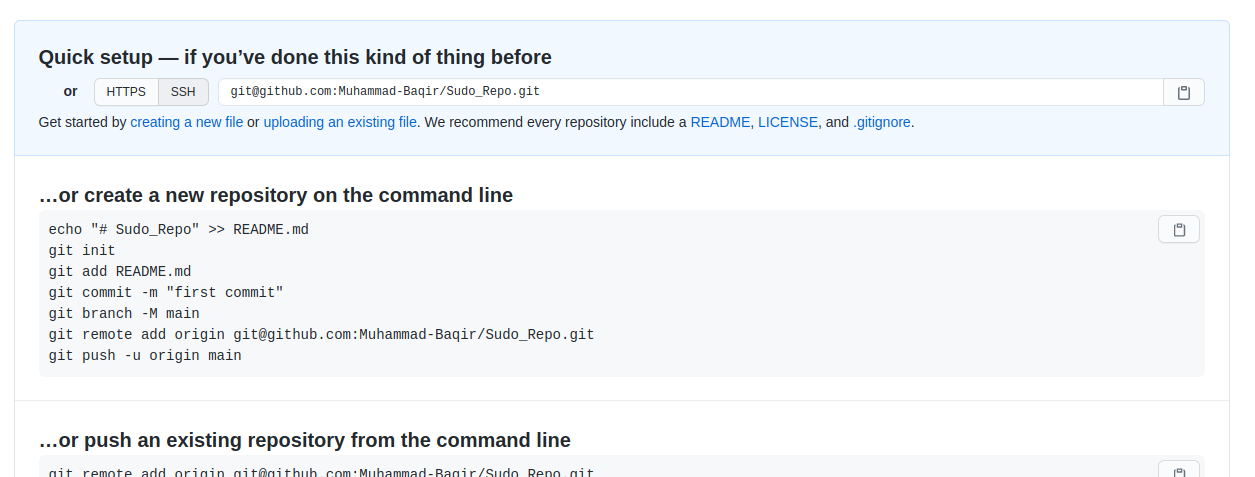


* + - **Step 1.3:** Scroll down and click on the **Create Repository** button. You will be redirected to your repository home page.

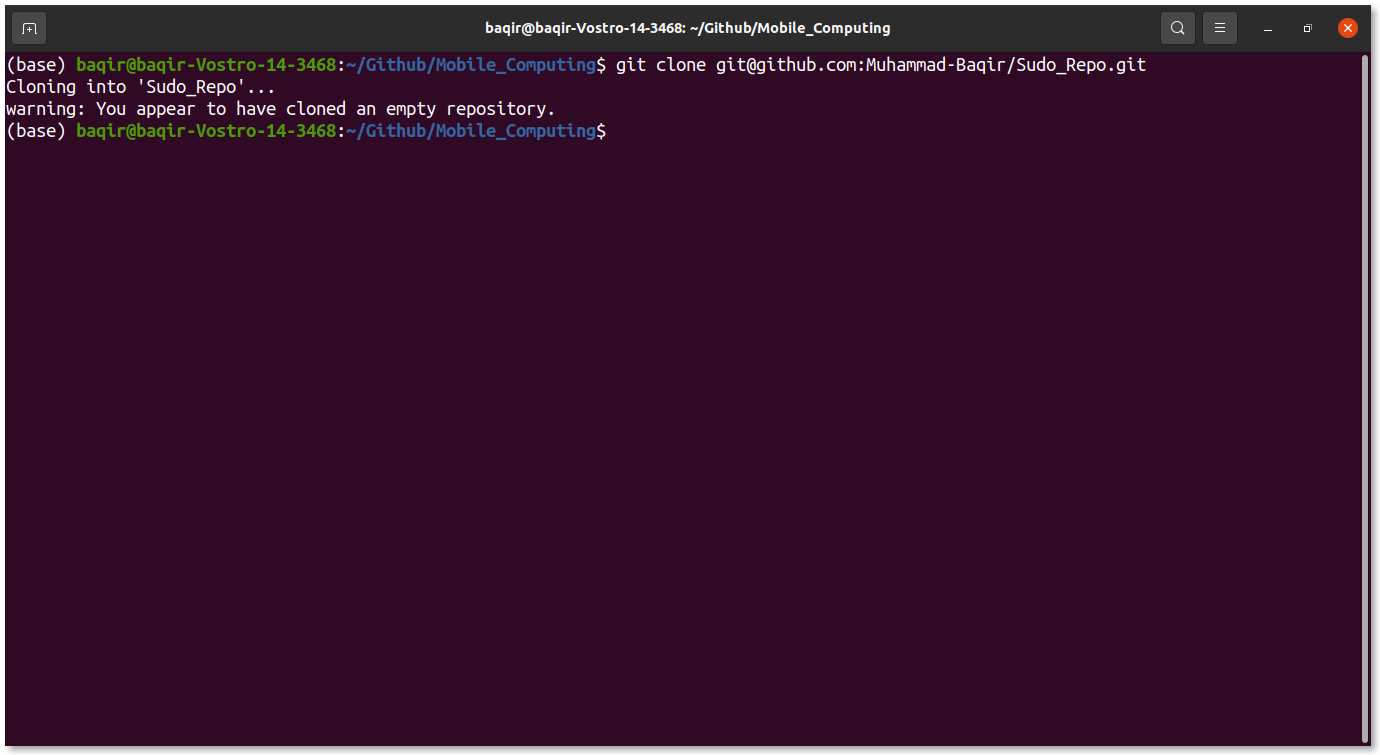




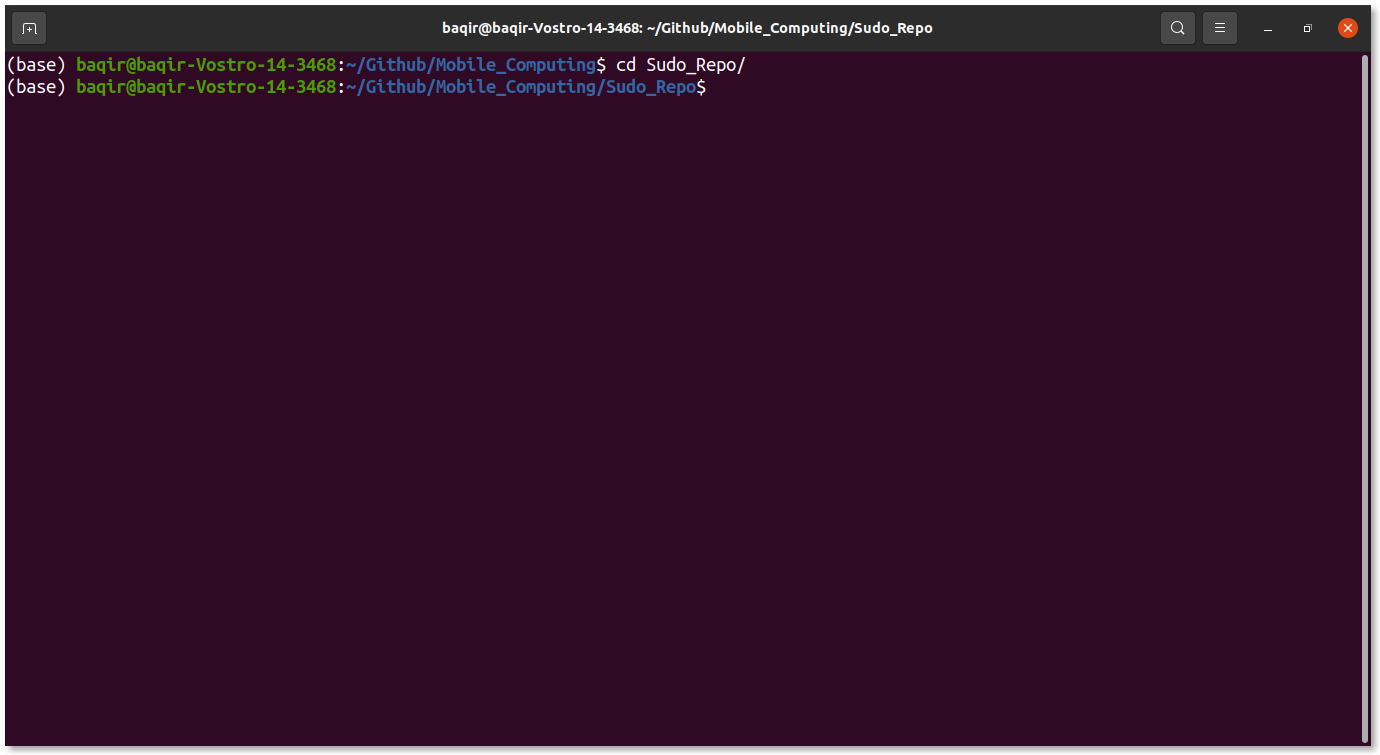
* + **Step 2:** After creating a repository online. Let's try to clone it, so that it can be used on your PC.
    - **Step 2.1:** Copy the repository url. You can either copy HTTPS or SSH. I will copy SSH url.



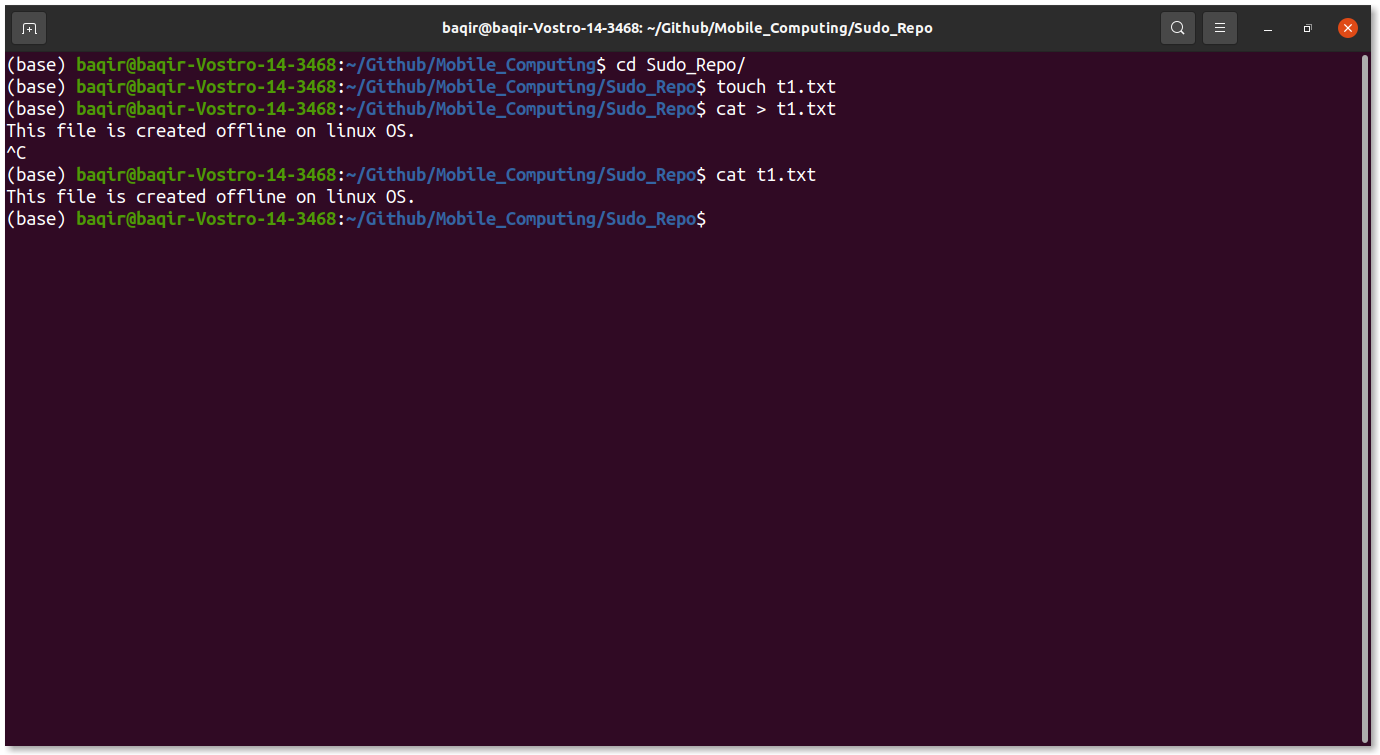
* + - **Step 2.2:** Open terminal. Change the directory where you want to clone and enter **git clone repo\_url** command. Git will clone the repository.



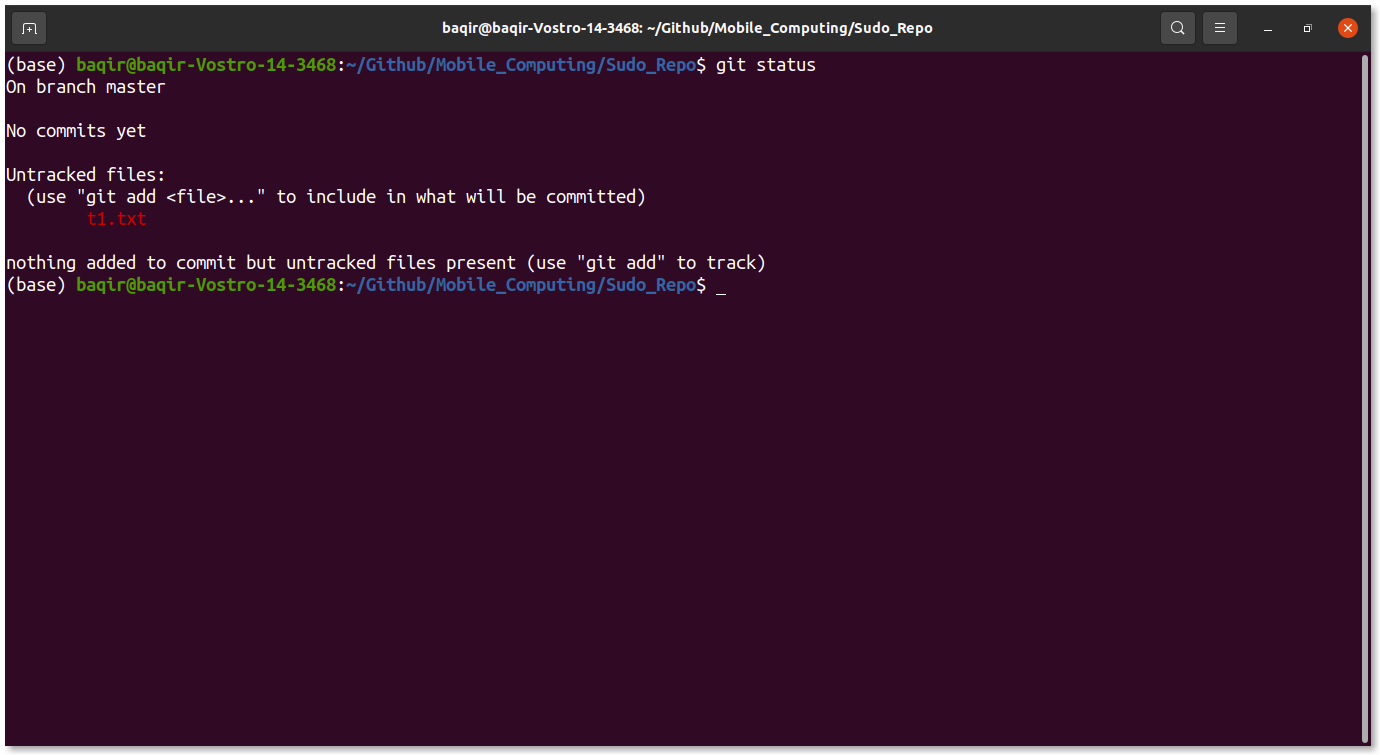
* + **Step 3:** Now we have cloned the repository. Let’s add a new file and push it.
    - **Step 3.1:** Firstly get into the repo directory using **cd directory\_name** command.



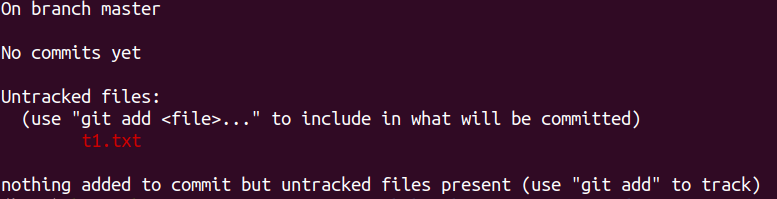
* + - **Step 3.2:** Create a new file and add some random stuff.



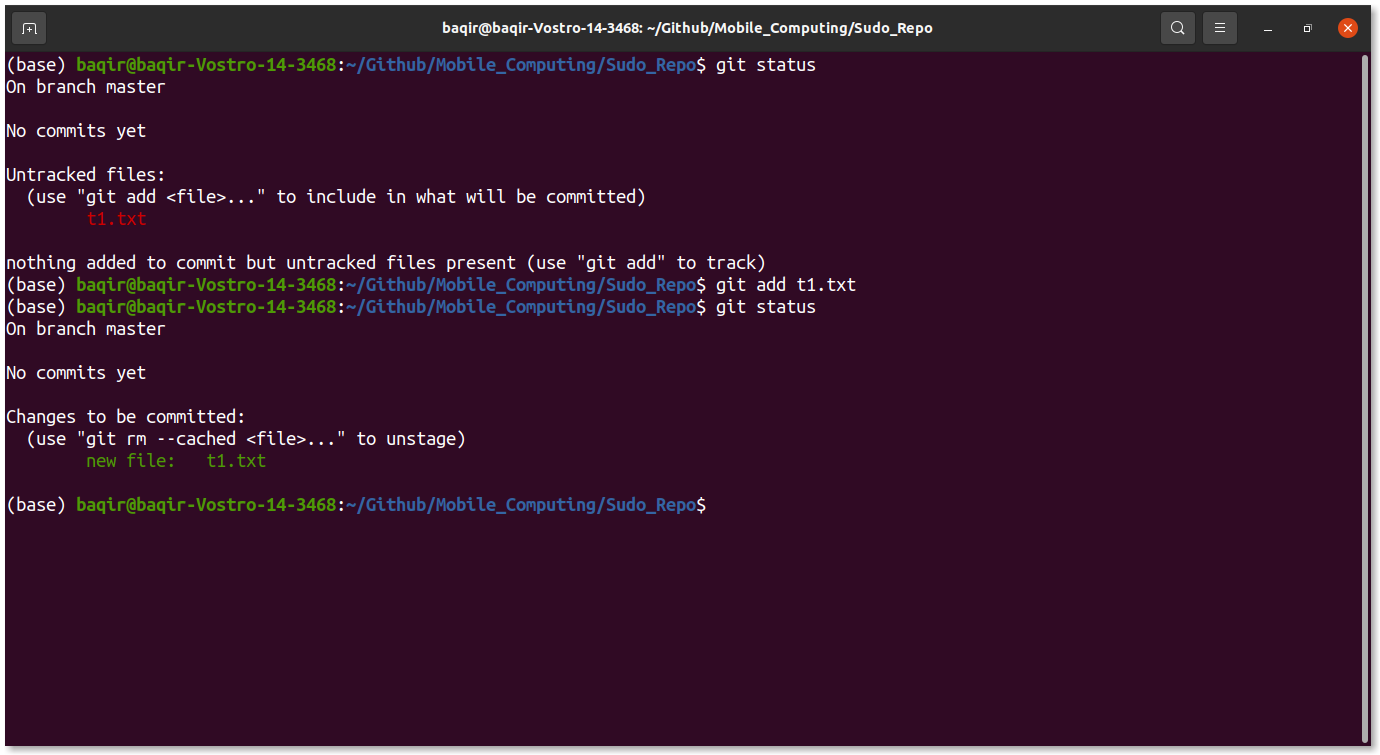
* + - **Step 3.3:** Clear the screen and enter **git status** command.



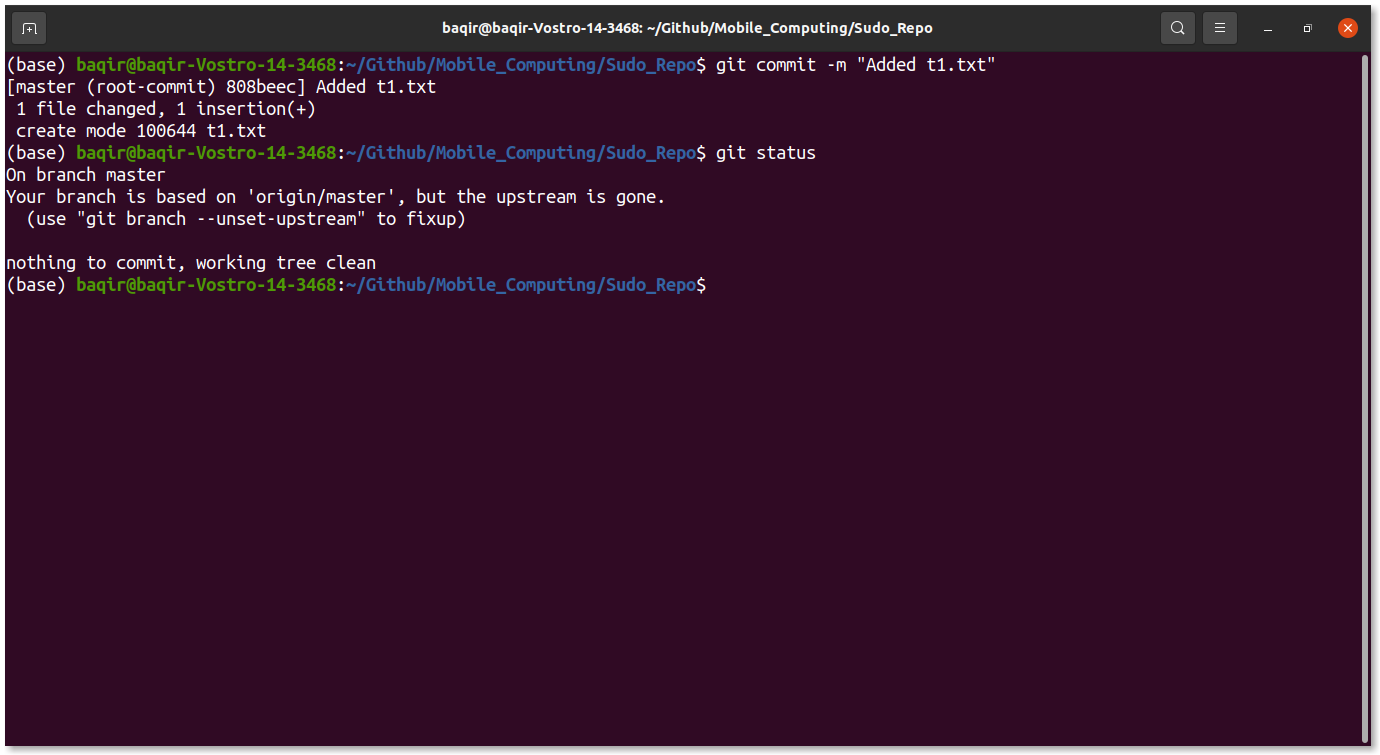
* + - **Step 3.4:** Here you can see that under **Untracked files:** t1.txt is highlighted in red. Which means that this file is not yet tracked by git.



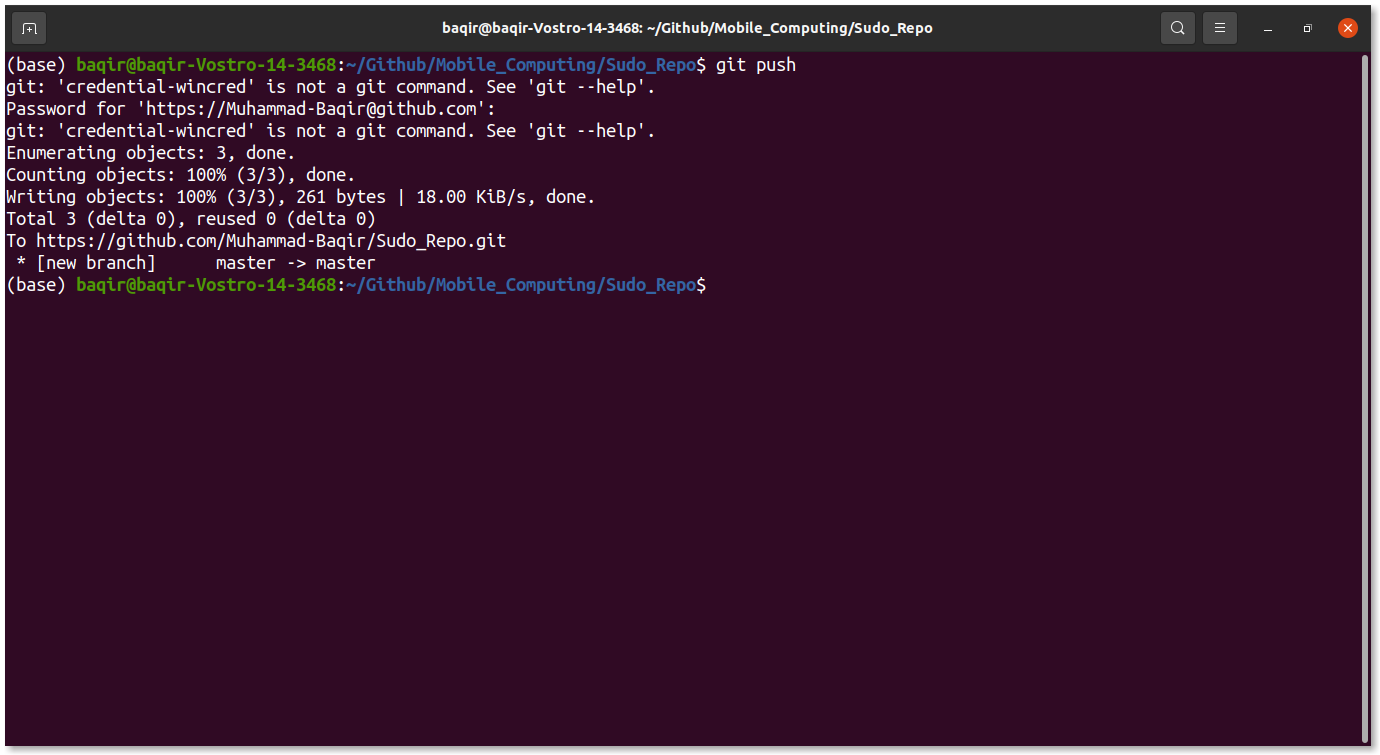
* + - **Step 3.5:** So we have to inform git to track the file by entering **git add fileName** command. Enter the command and again see status. Now you can see that git is tracking the file but it is not committed.



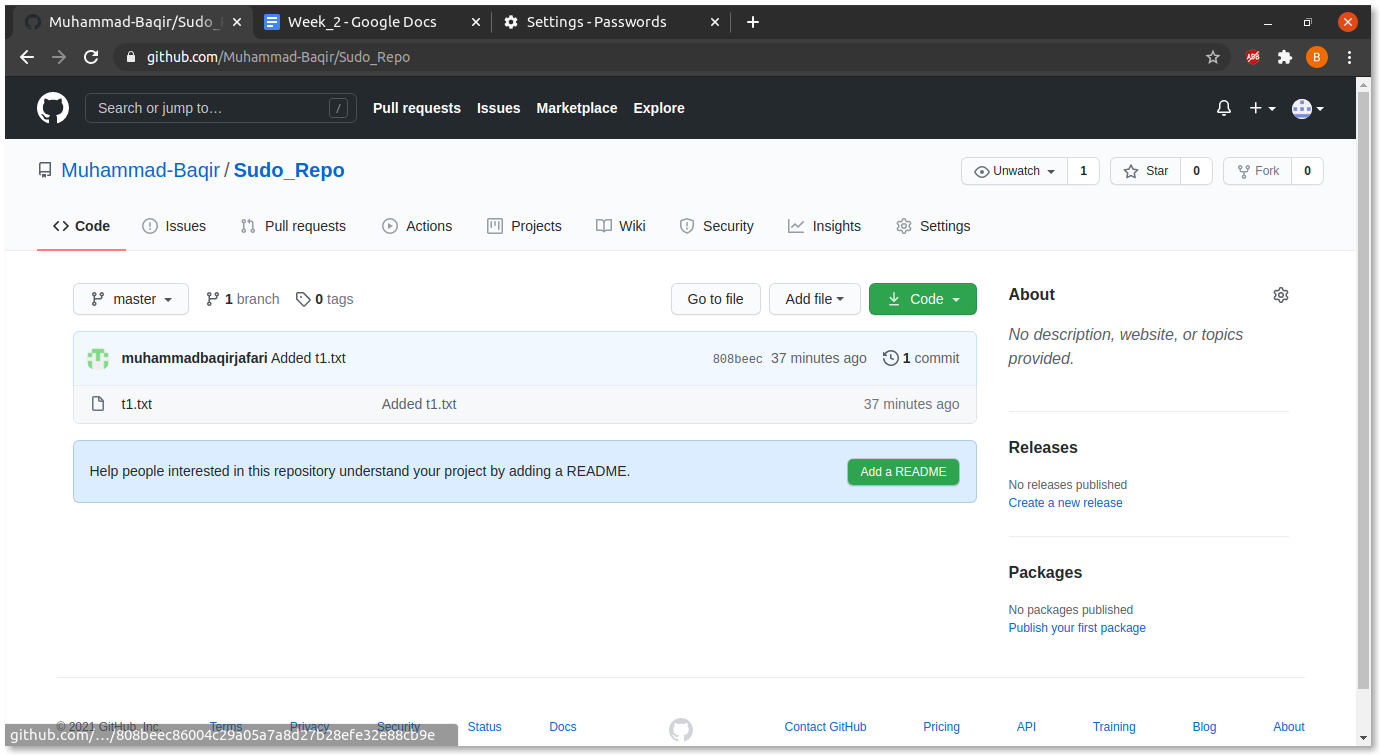
* + - **Step 3.6:** So clear the screen and enter command **git commit -m “Any meaningful message”**. And again check git status. Now you can see that there is nothing to commit.



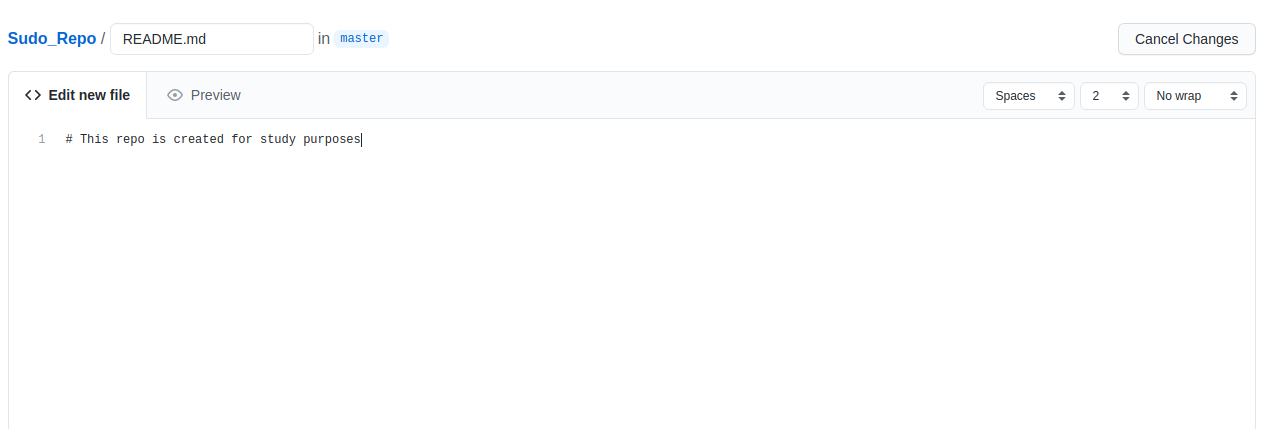
* + - **Step 3.7:** Now we have committed the changes. But still these changes are not visible online. The reason is that we have to push the repo. So enter **git push** command. Now you can see changes on Github repo also.



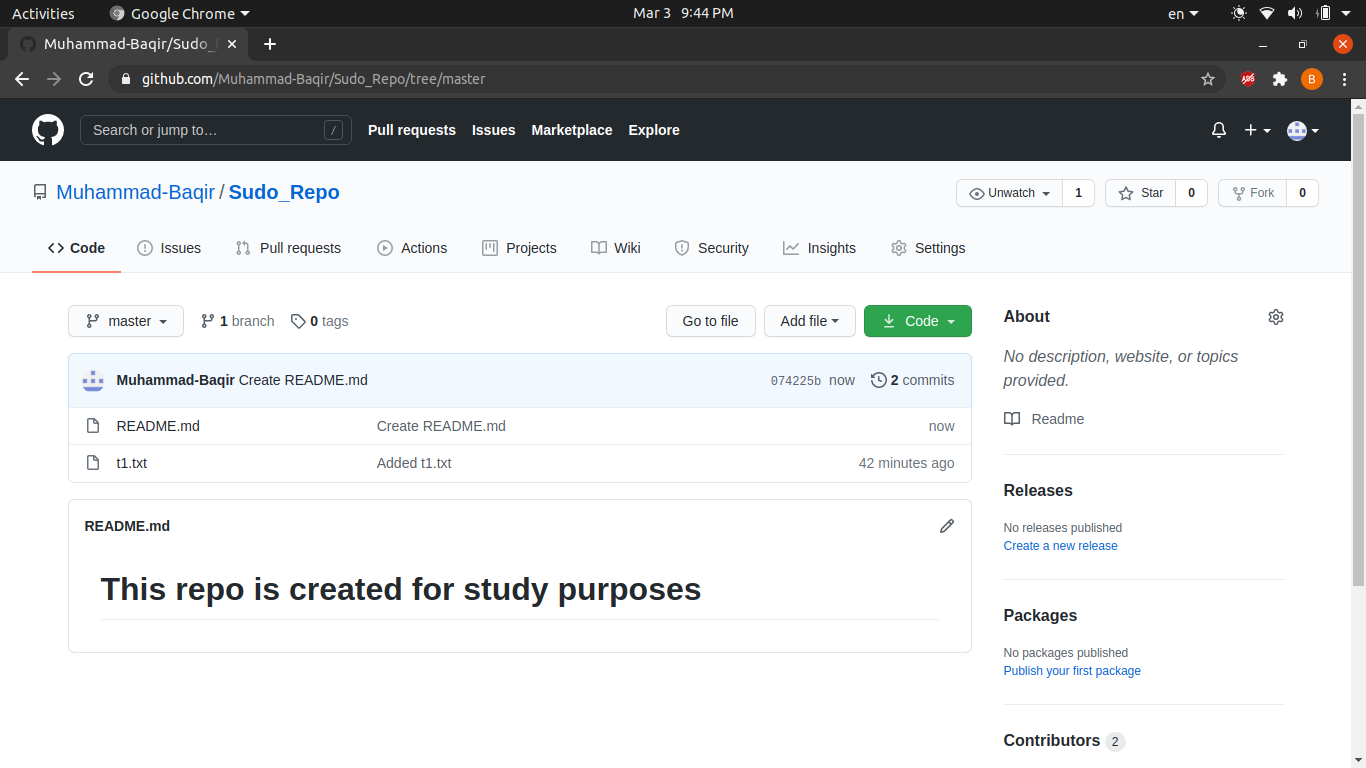
* + **Step 4:** Now let’s try to add a README.md file online and pull the changes offline.
    - **Step 4.1:** Go to your Github repository homepage and click on **Add a README** button.



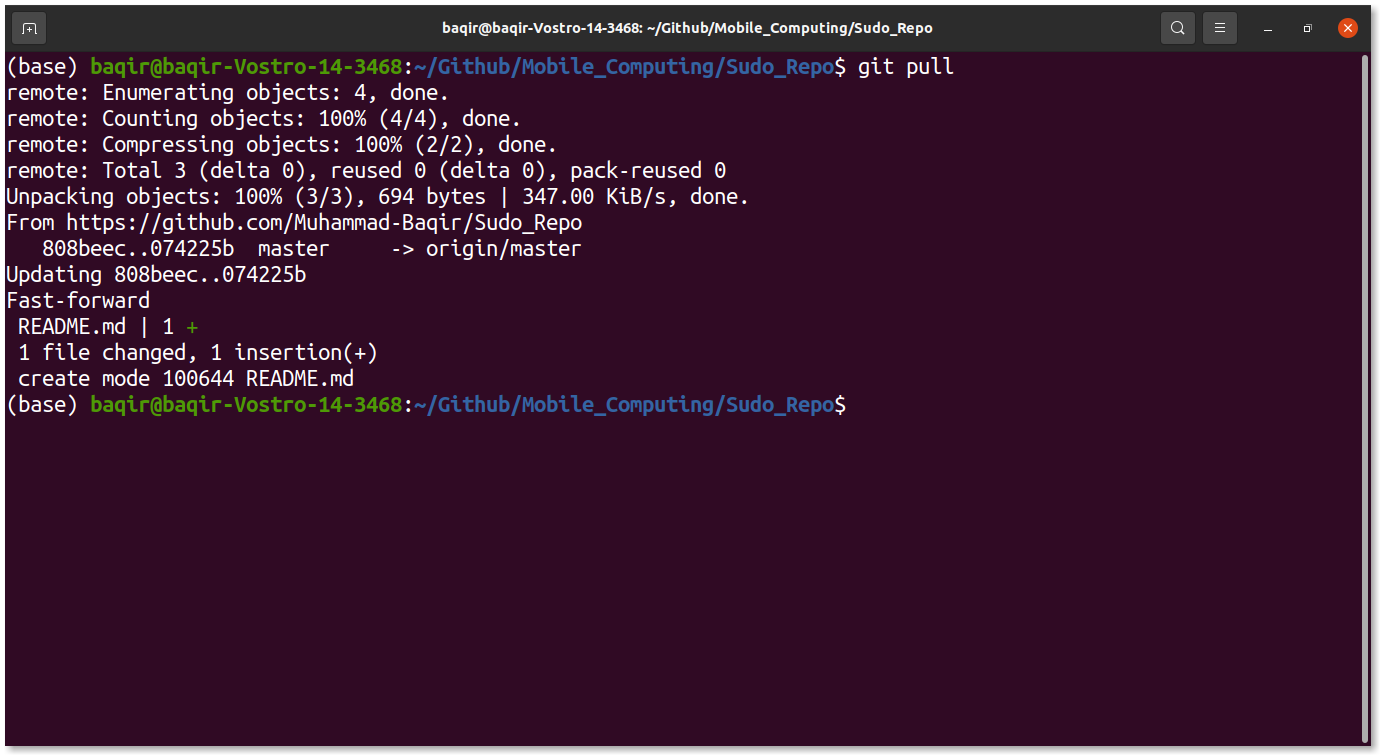
* + - **Step 4.2:** You will be redirected to a new url where you can edit your newly created README file. Add some random stuff.



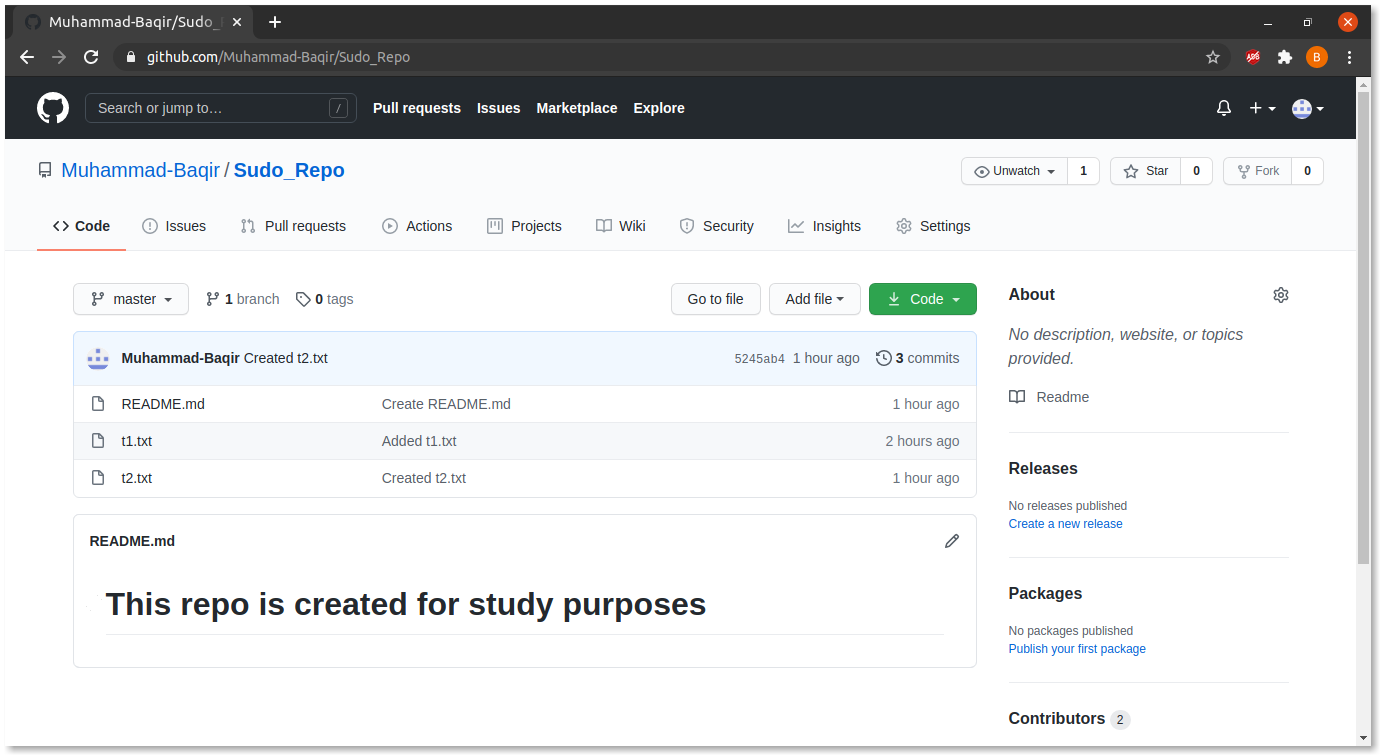
* + - **Step 4.3:** Scroll down and click on **Commit new file** button. Now you will be redirected to the repo home page and a new README.md file is also added.



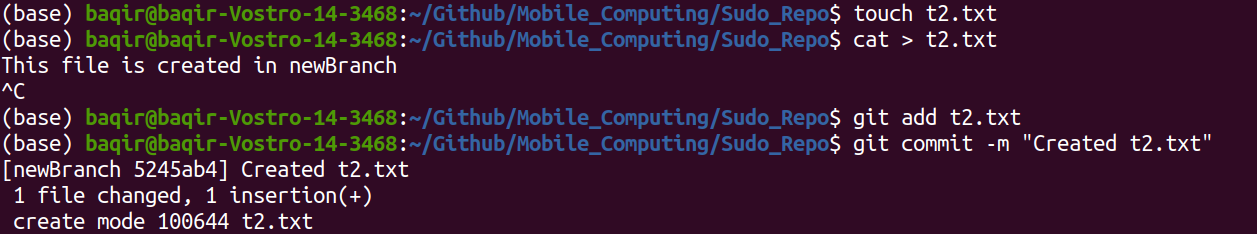
* + - **Step 4.4:** To see changes offline. Go to terminal and enter **git pull** command.



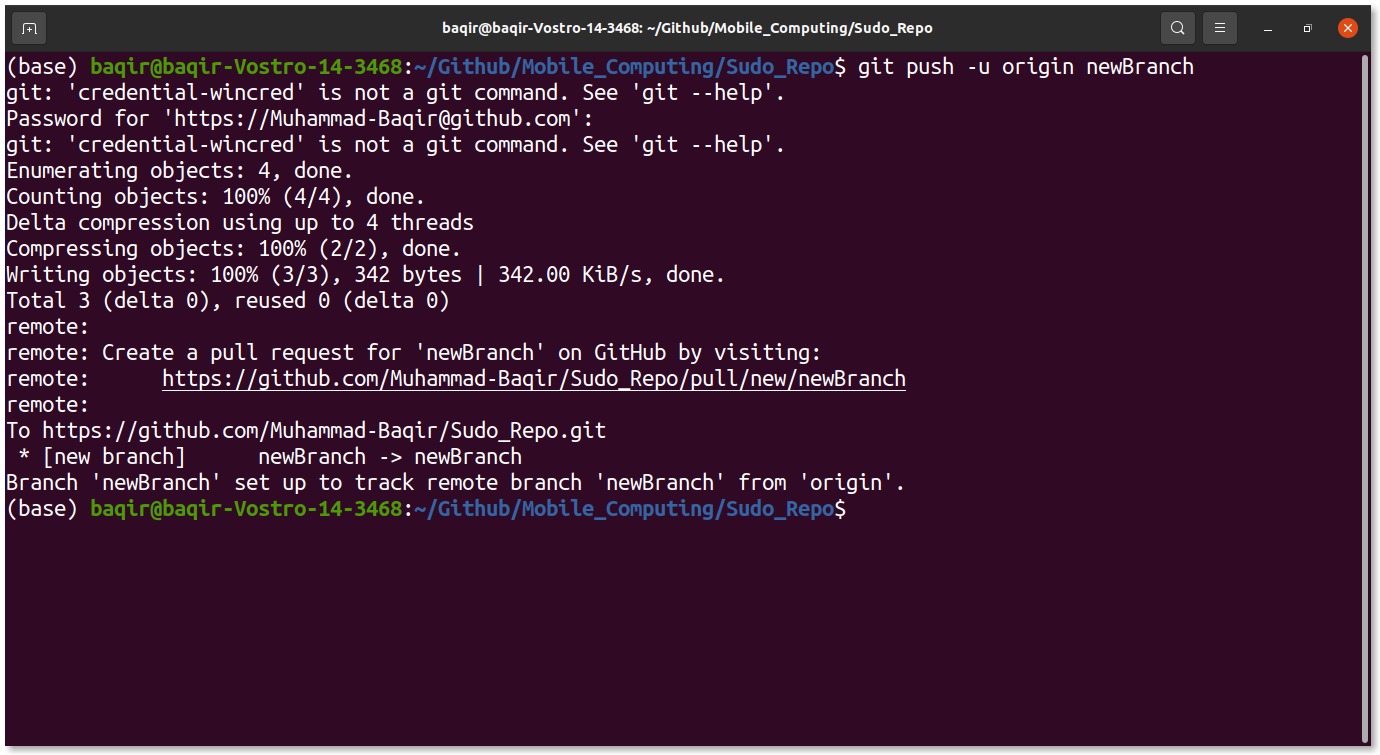
* + - **Step 4.5:** Now you can see that the README file is available offline.
  + **Step 5:** Now lets play with git branches.
    - **Step 5.1:** In terminal enter **git checkout -b new\_branch\_name**. Now enter the git **branch** and you can see the new branch is created.



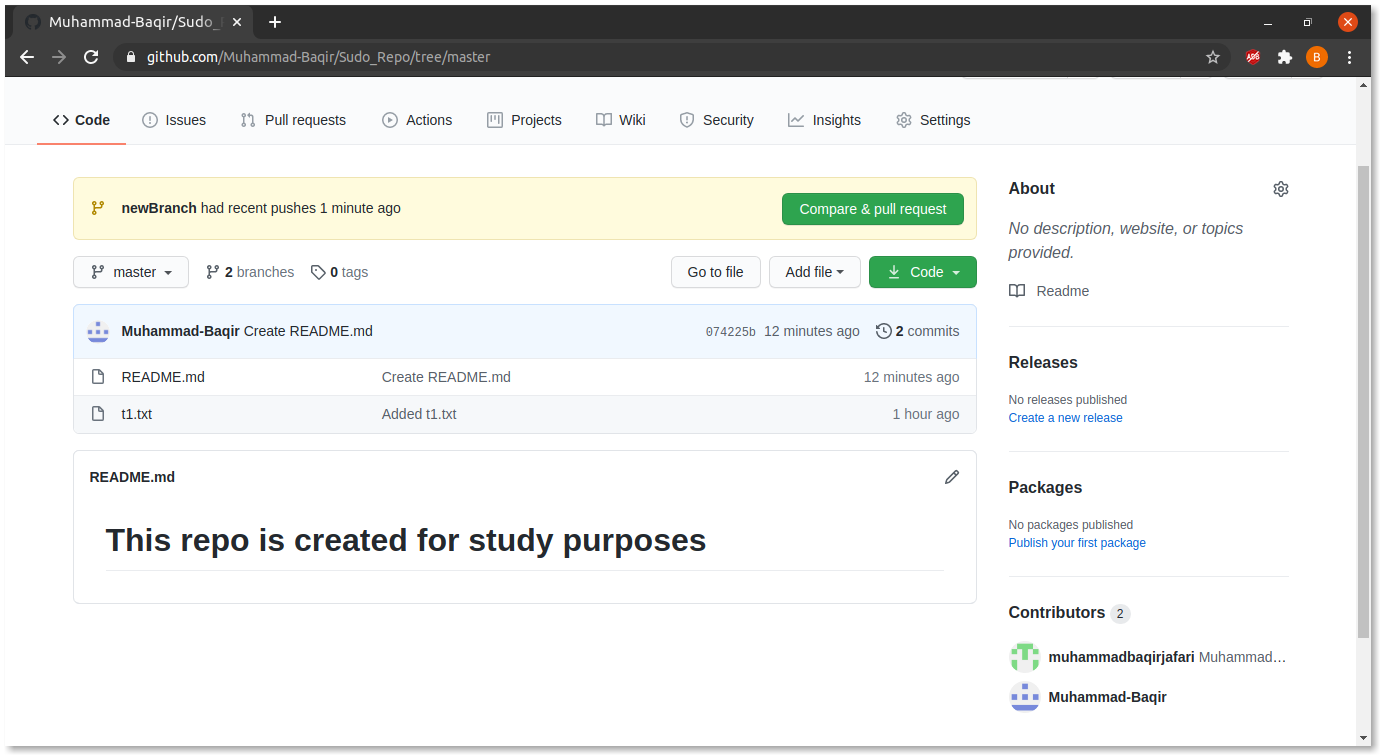
* + - **Step 5.2:** Create a new file there and commit the changes.



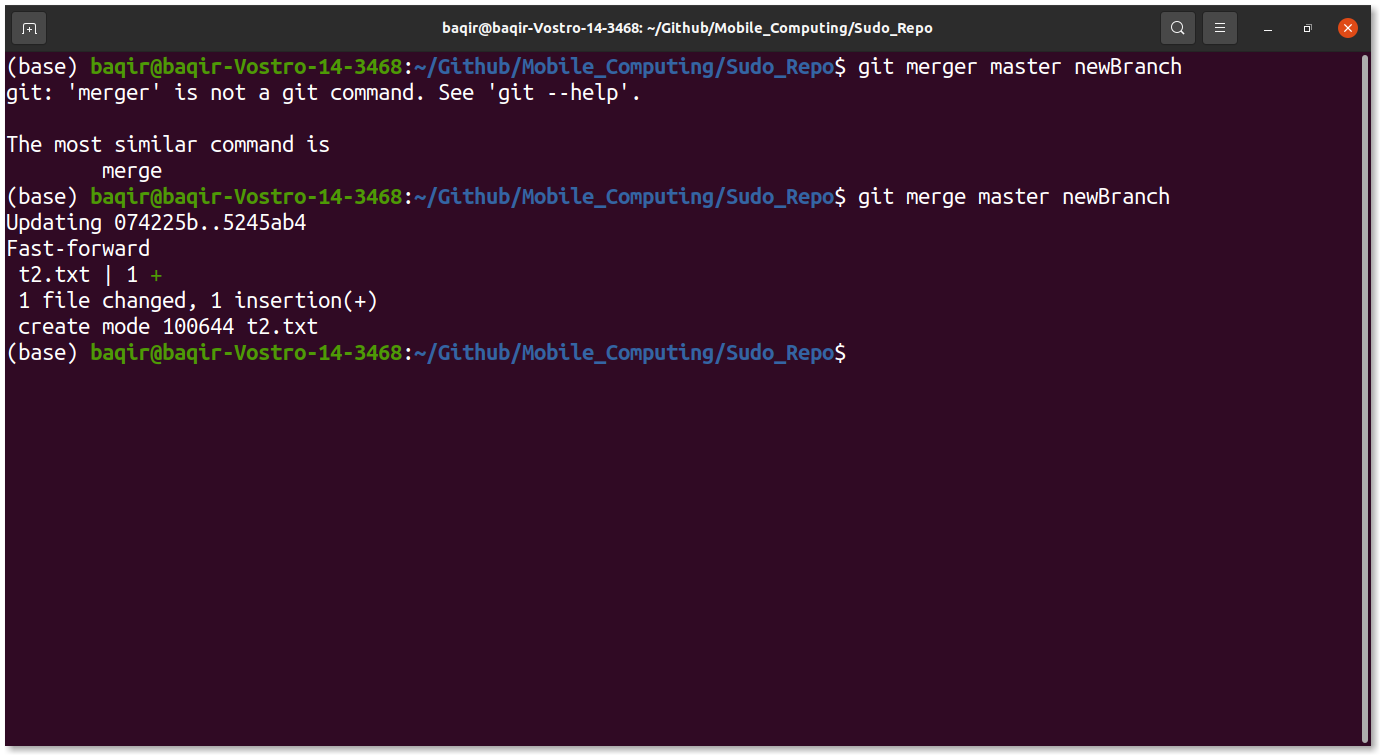
* + - **Step 5.3:** Now enter **git push -u origin new\_branch\_name** to push the changes.



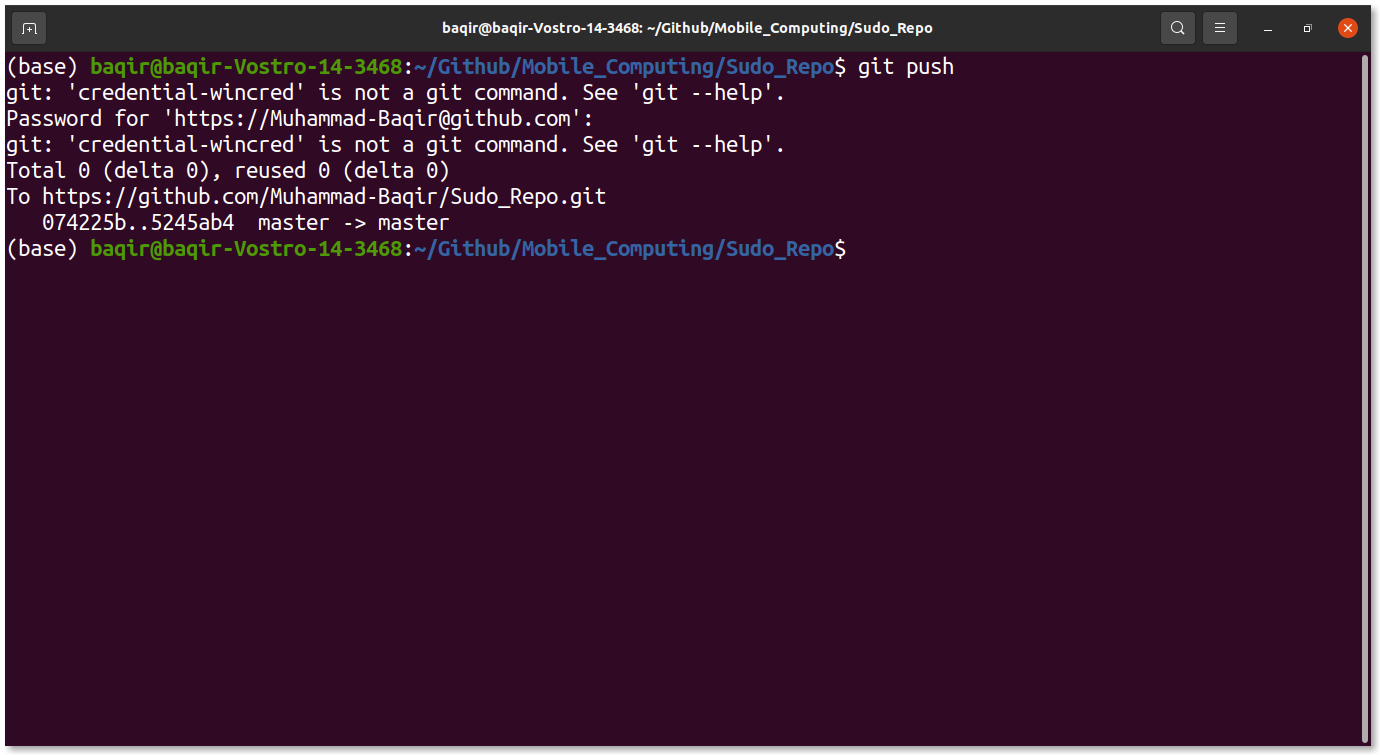
* + - **Step 5.4:** Now you can see that there are two branches available. Now let’s try to merge newly created branch to master branch.



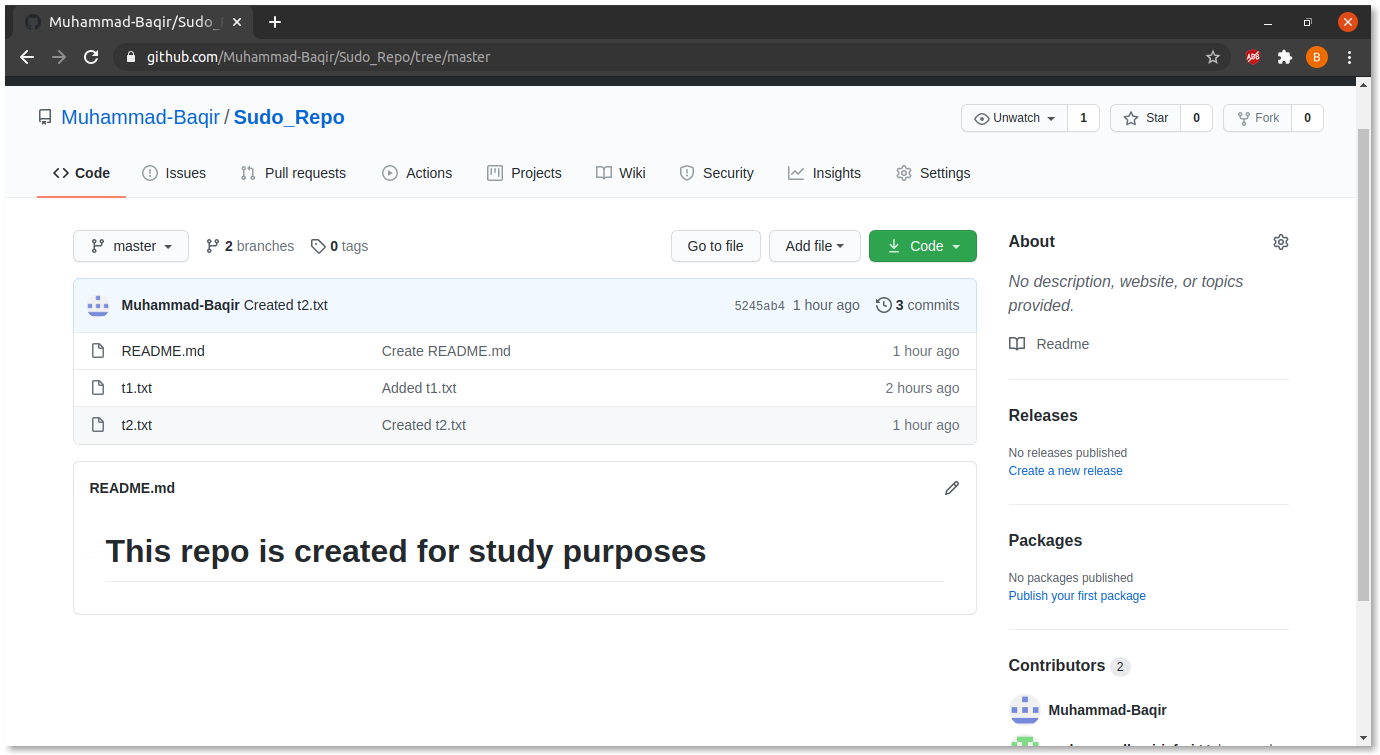
* + - **Step 5.5:** In terminal enter command **git checkout master**, in order to switch to master and branch and then enter **git merge origin new\_branch\_name**.



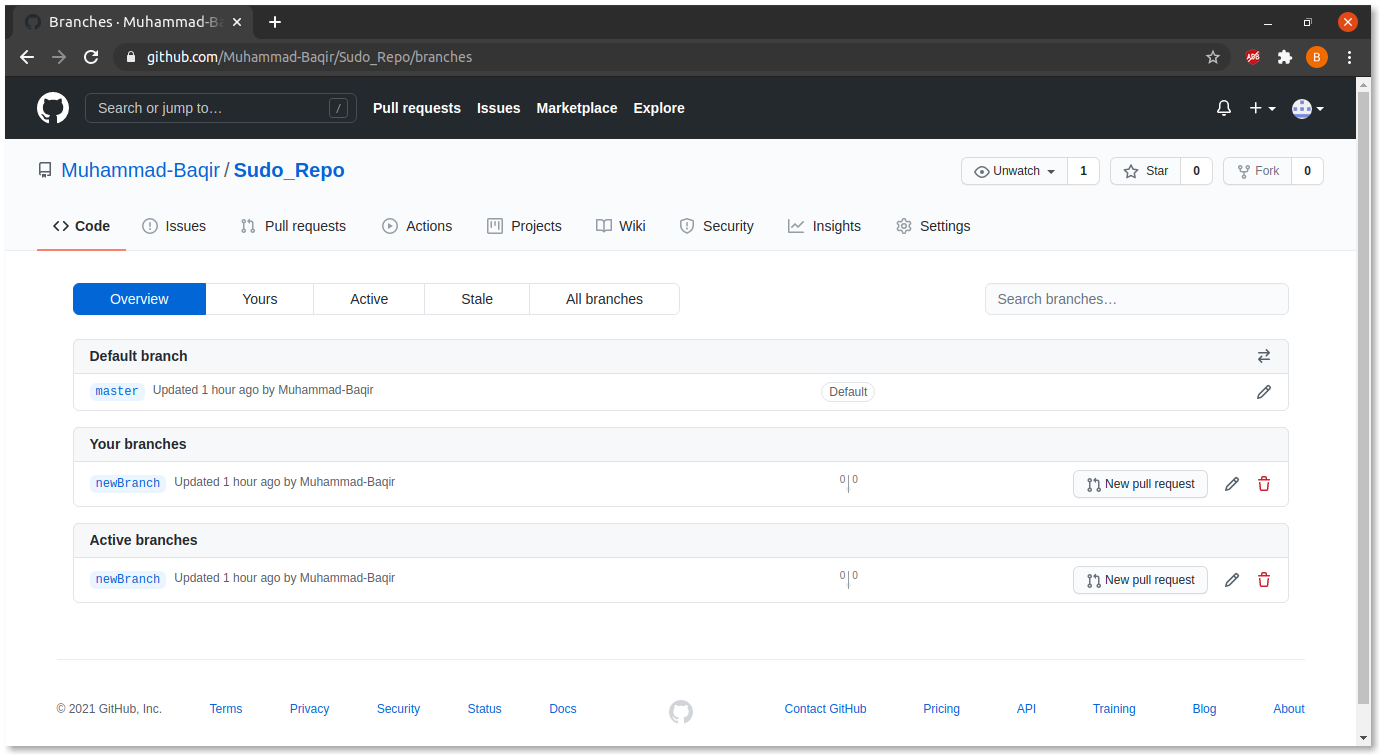
* + - **Step 5.6:** Now push the changes so you can see the changes online



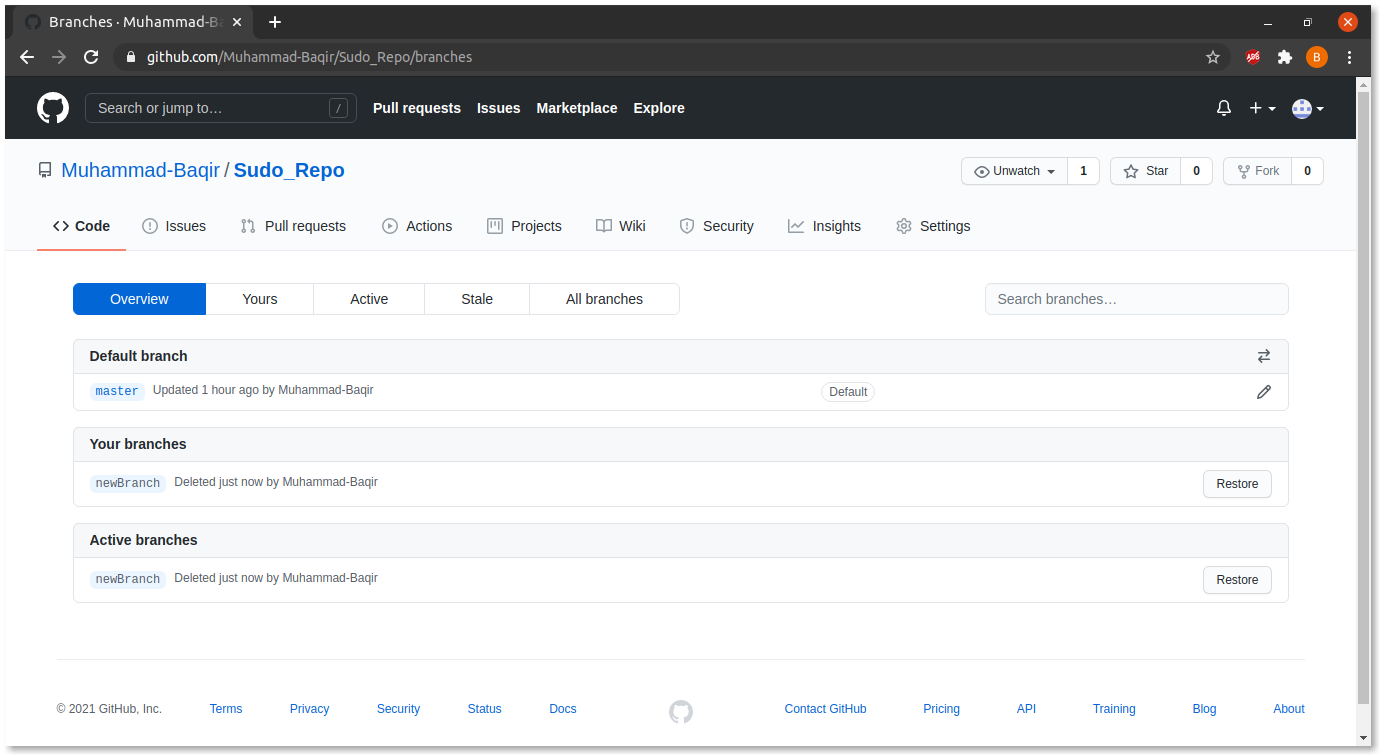
* + - **Step 5.7:** You can see that the master branch also has a t2.txt file.



* + - **Step 5.8:** You can also delete older branch by clicking on branches icon. And you will be redirected to a new page.



* + - **Step 5.9:** Here you can click on delete button and your branch will be deleted.



* + - **Step 5.10:** Now go to the home page and you can see only master branch is available.

