**PUNJAB UNIVERSITY OF INFORMATION AND TECHNOLOGY**



**Submitted to: Prof. Haq Nawaz**

**Submitted by: Muhammad Tayyab**

**Roll no.: mcsf19a037**

**Mobile Computing Classwork**

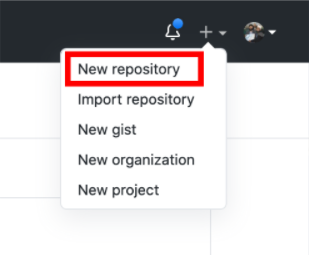
**Lecture 1**

**Task 1:** Creating GitHub Repository, simple text file and uploading it on GitHub.

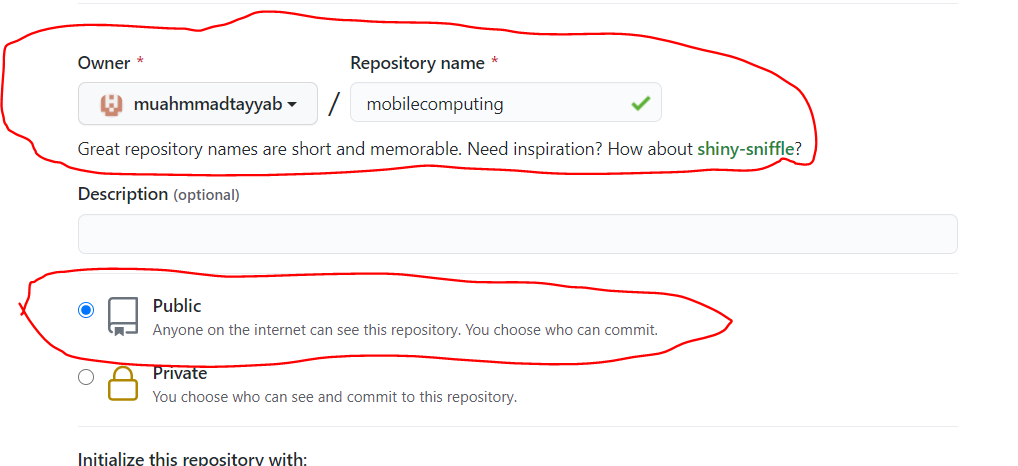
**Steps: -**

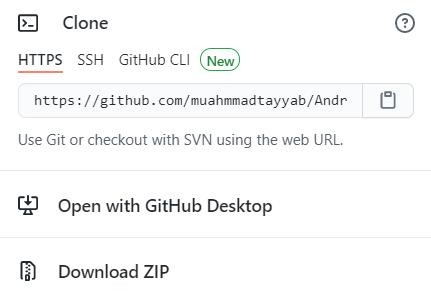
**Step 1:** Create an Account on github.com.

**Step 2:** Create a Repository on GitHub.

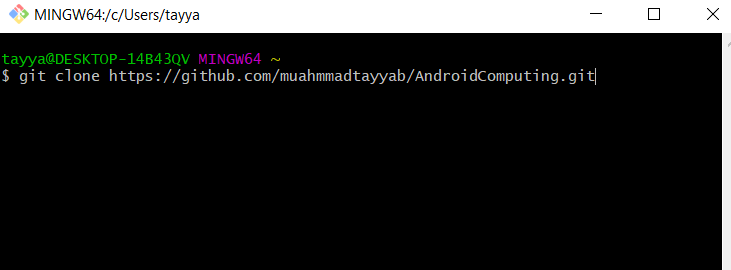


**Step 3**: Provide details of repository on your account.

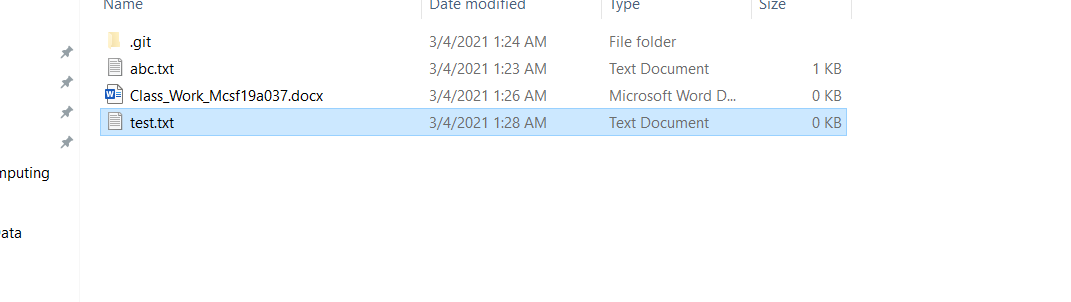


**Step 4**: URL of repository on your account.

**Step 5:** Clone a repository



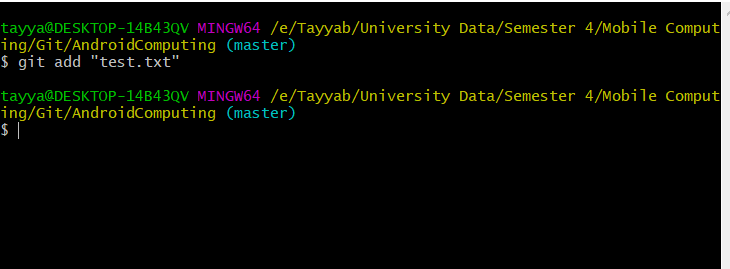
**Step 6:** Create simple text file by clicking right click and then click on New and then Text Document.



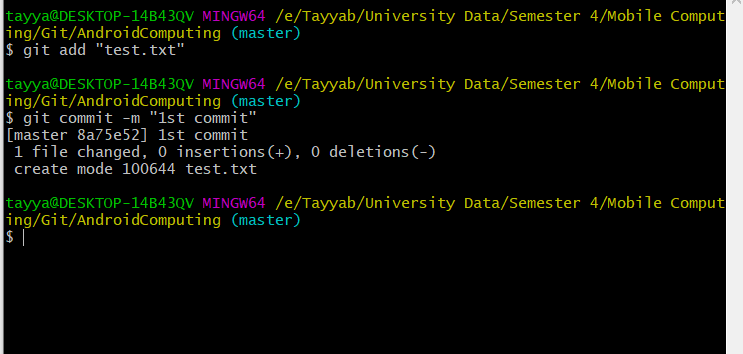
**Step 7:** Now open git from start menu by searching git.

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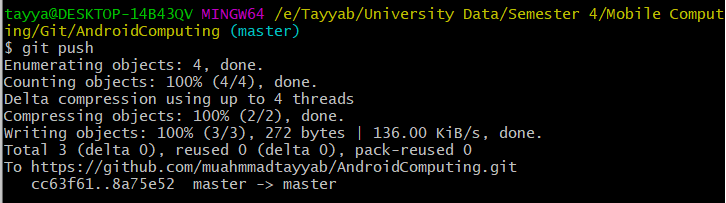
**Step 8:** Now Add text file in git by writing command “git add test.txt”.



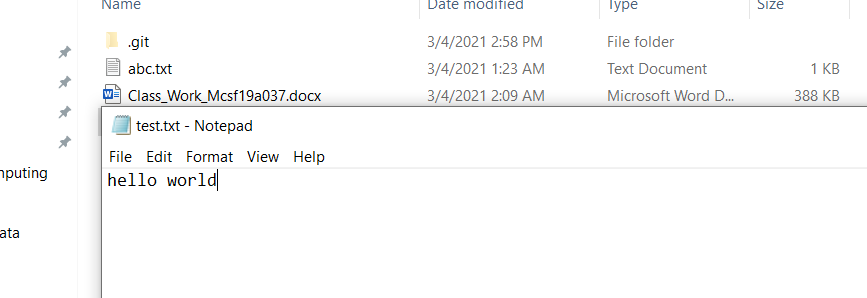
**Step 9:** Changes made with message to track.



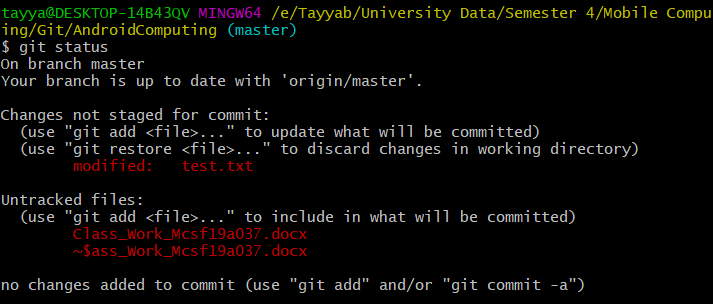
**Step 10**: Now push changes to server.



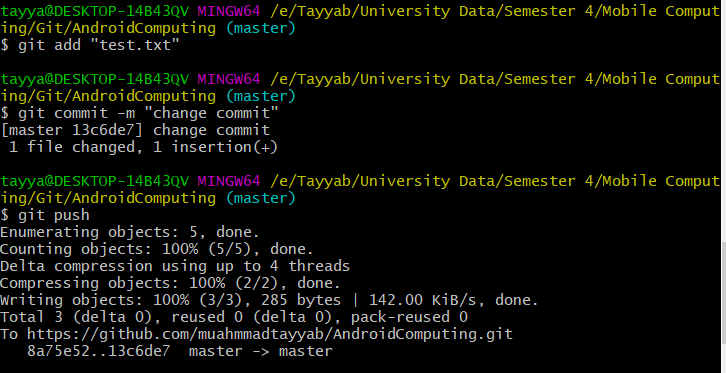
**Step 11**: Now made some changing in text file.



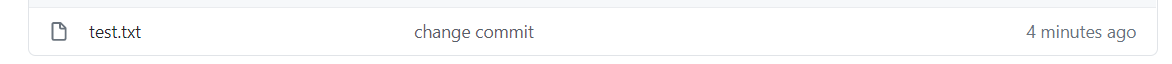
**Step 12**: Now check status on git by writing command “git status”.

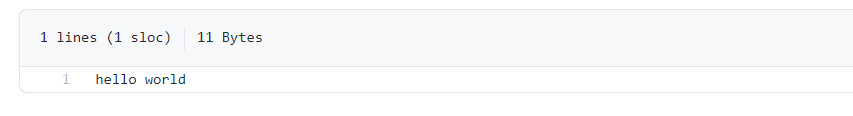


**Step 13**: Now again add file to git and commit change made with message to track and then push it to server git.



**Step 14**: view of repository after push by opening git website on browser.



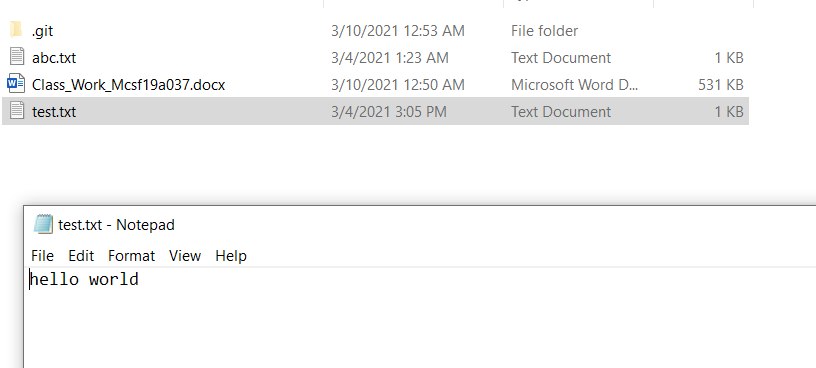
**Step 15**: Content of file in repository.

**Lecture 2**

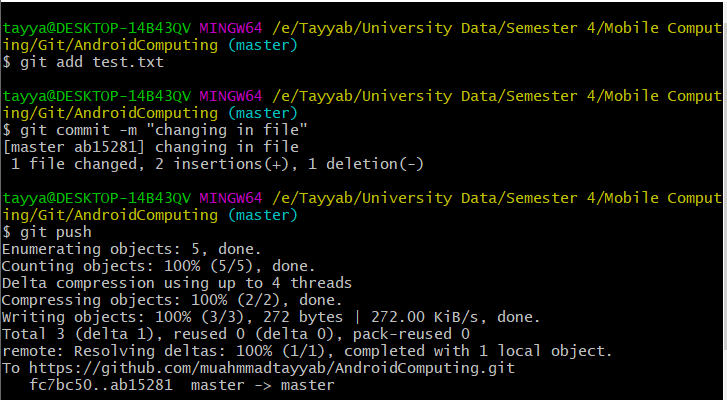
**Task 2:** To solve merge conflict.

**Steps: -**

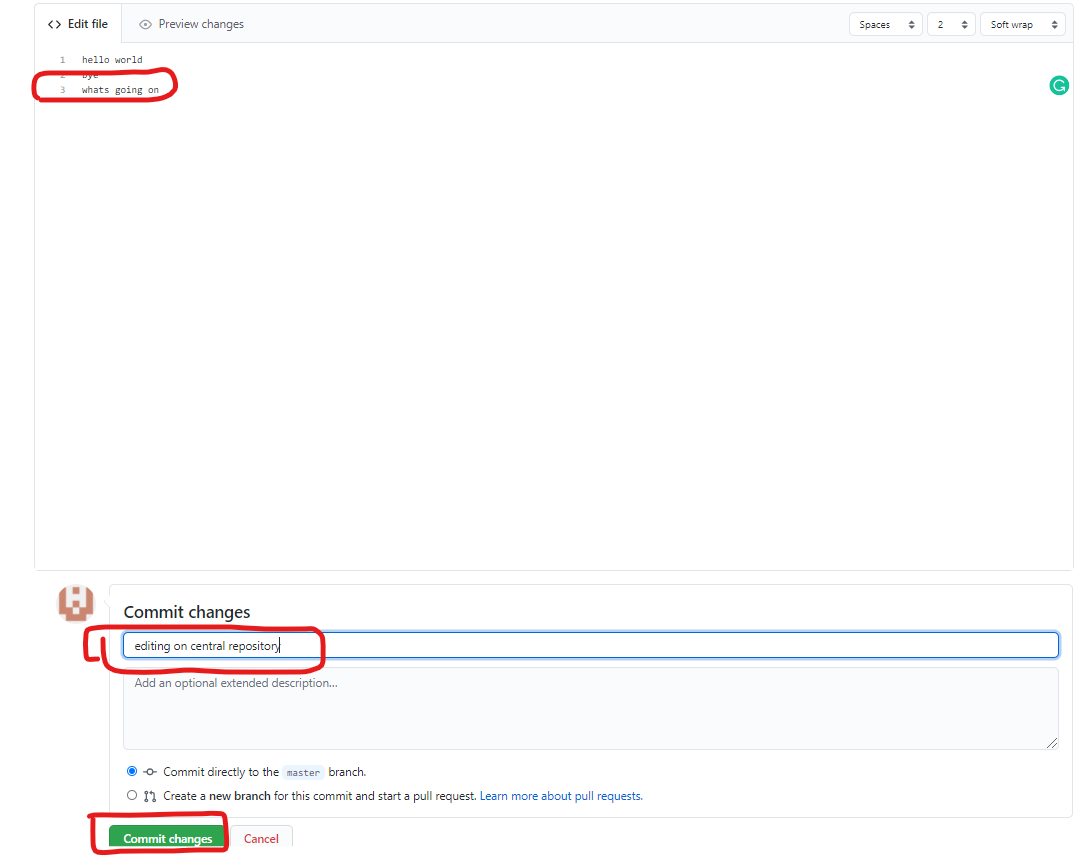
**Step 1:** Open text file.



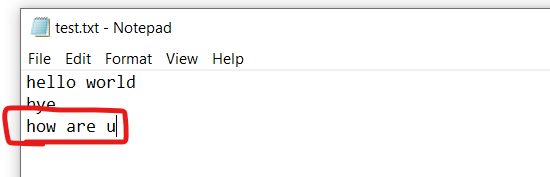
**Step 2:** Add some text. After that, add this file to git, then run commit and then push it into central repository.



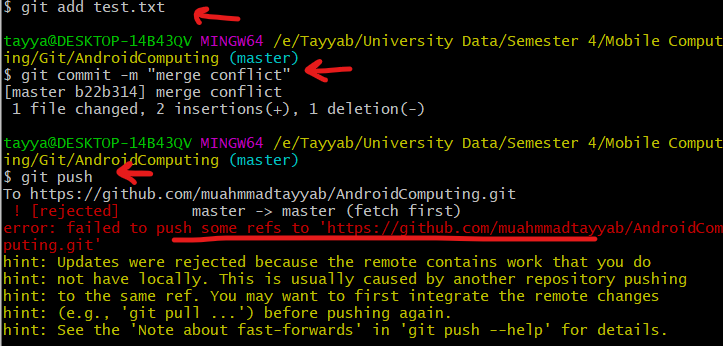
**Step 3:** Now, to merge central and local repository, first, edit code into central repository and then commitchanges.



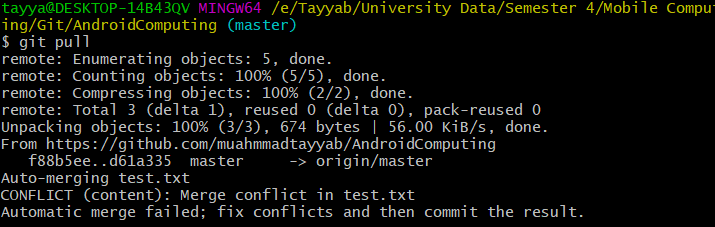
**Step 4:** Now, without pulling central data, just go into local repository and add some text to same line at the same time.



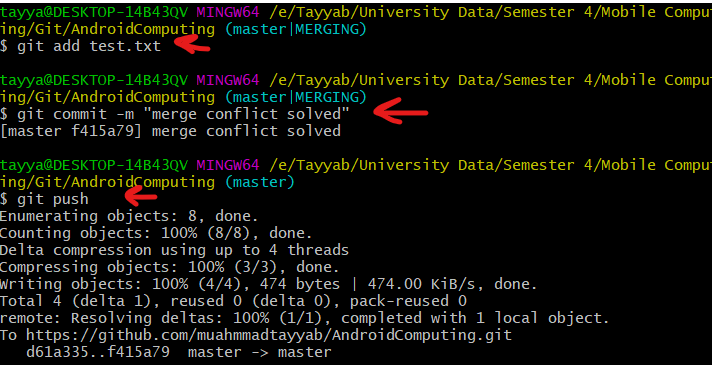
**Step 5:** Then add that file into git and commit, now, when you push it, it gives an error to firstly pull central repository data into it.

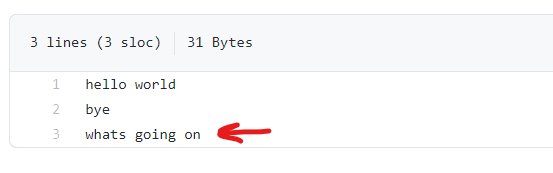


**Step 6:** So, run git pull command and it gives an error which tells you that there is a conflict in merging.

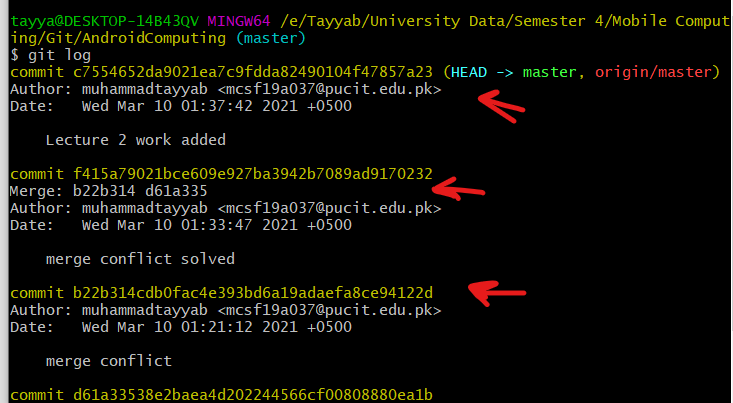


**Step 7:** So, open your file from local repository, you can see there are two statements showing (one of local and 1 of central repository). Select the data you want to add and del other one, then save. After Selection error resolve.



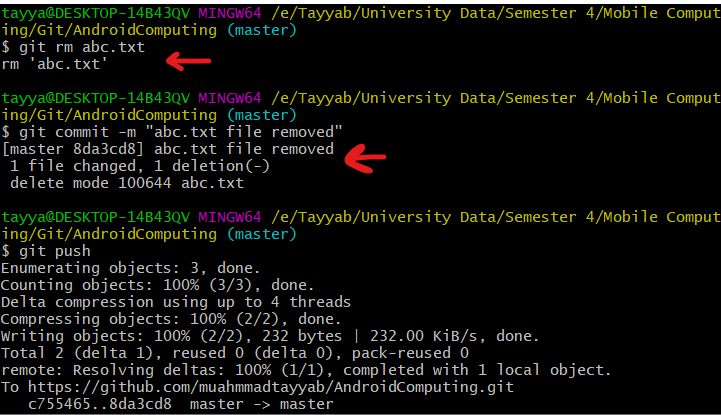
**Step 8:** so, now, the new changes can be seen on repository.

**Task 3**: Check History of command and action you perform using git log command.

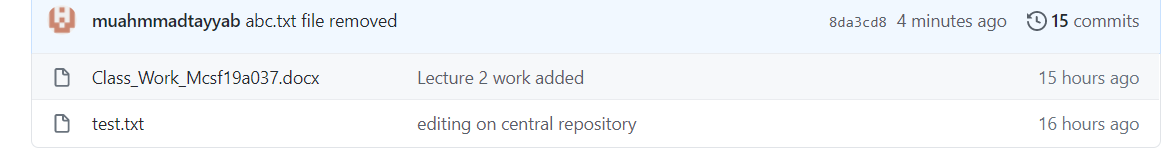


**Task 4**: Delete file using rm command.

git rm <filename>

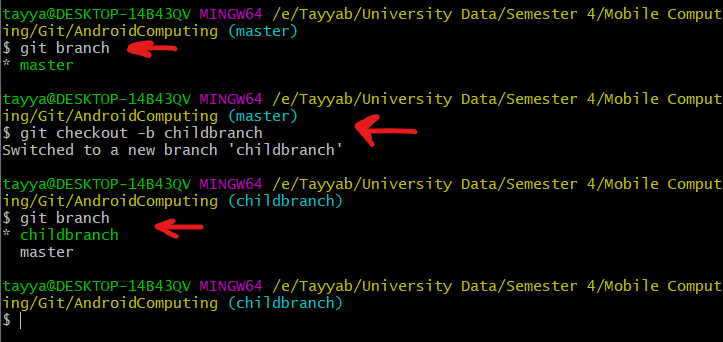


Here you can see file deleted successfully.

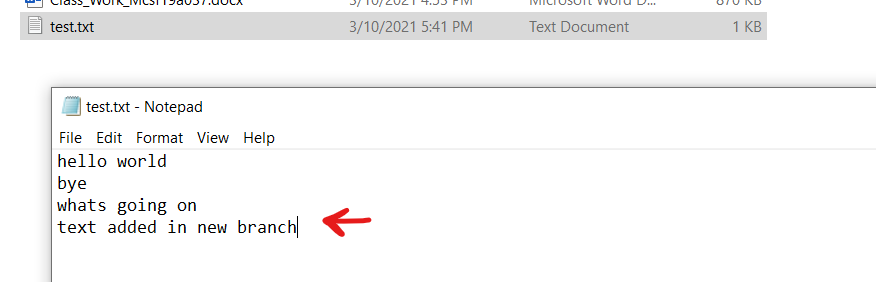


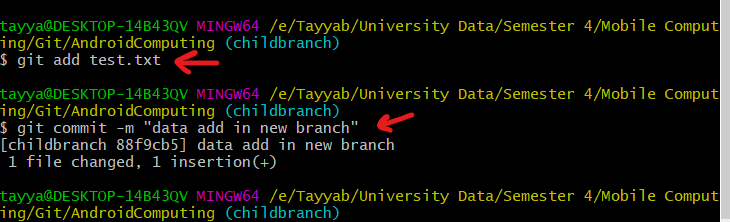
**Task 5:** Creating Branches, Merging Branches

**Step 1:** At first, check your branch status which is master branch by default, then create a new branch using git checkout –b newbranch command. Then again check your branch status**,** it will be changed.

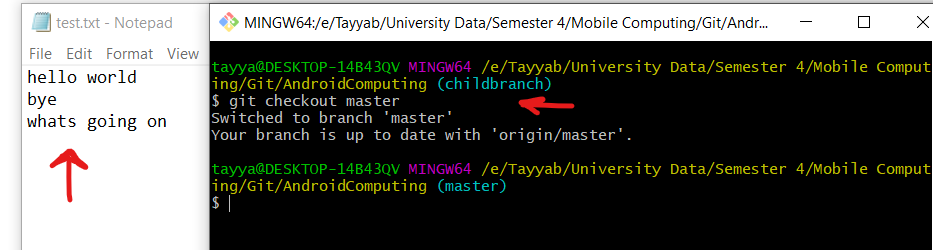


**Step 2:** Now apply some changes in text file. Then add file to git, commit it and push

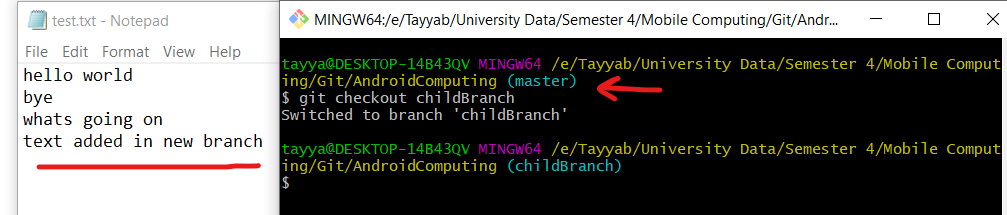




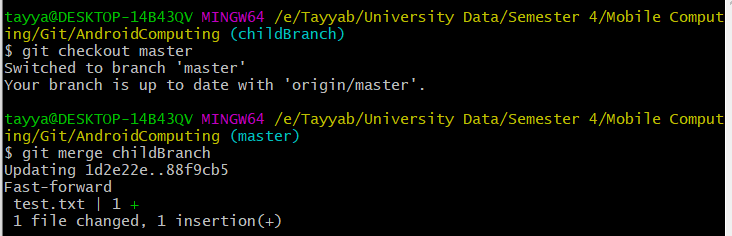
**Step 3:** Now change branch to master branch using command git checkout master. After changing here, you can see data in master branch.



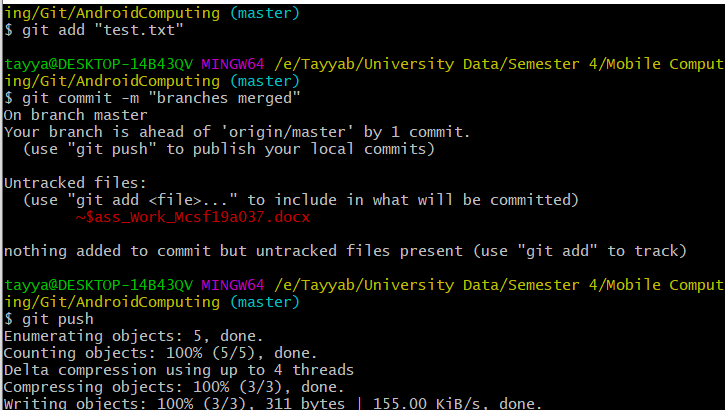
**Step 4:** Now again change branch to childBranch and you will see childBranch data.



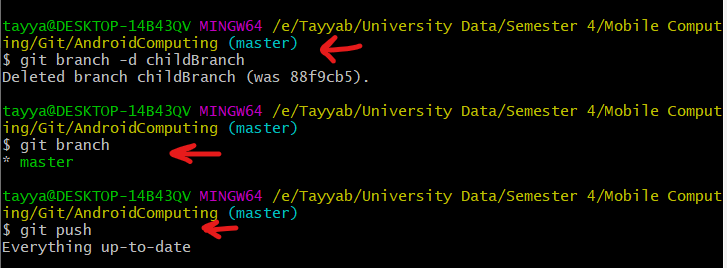
**Step 5:** Now to merge both branches switch to that branch first in which you want to merge the data and then merge data using git merge [branch\_name] command.



**Step 6:** After merging add file to git, commit it and then push it to git central repository to update.



**Step 7:** After pushing delete childBranch with command git branch -d childbranch, and check branch status by git branch command, and then push.



So, that’s all the git practice.

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