**GIT LAB ASSIGNMENT**  **02**

**EXERCISE -02**

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BRANCH : B.E

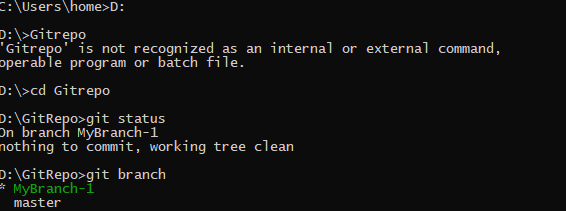
DEPT : COMPUTER SCIENCE AND ENGINEERING

YEAR : IV - YEAR

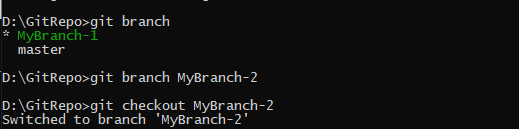
COLLEGE : KSRIET

DATE : 12.07.2024

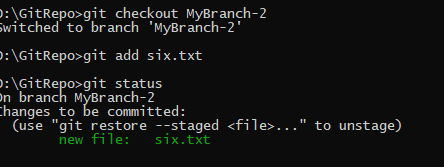
1. Run the **status** command. Notice how it tells you what branch you are in.



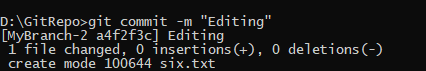
2. Use the **branch** command to create a new branch.



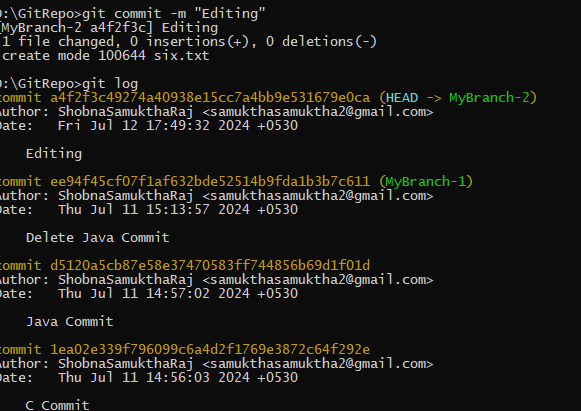
3. Use the **checkout** command to switch to it.



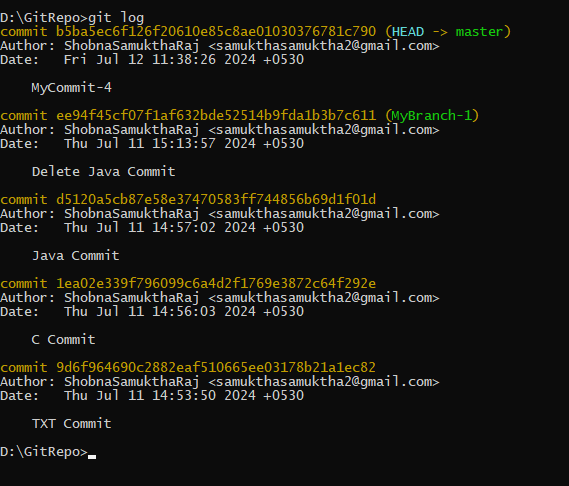
4. Make a couple of commits in the branch – perhaps adding a new file and/or editing existing ones.



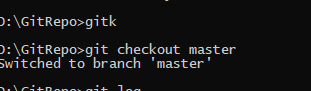
5. Use the **log** command to see the latest commits. The two you just made should be at the top of the list.



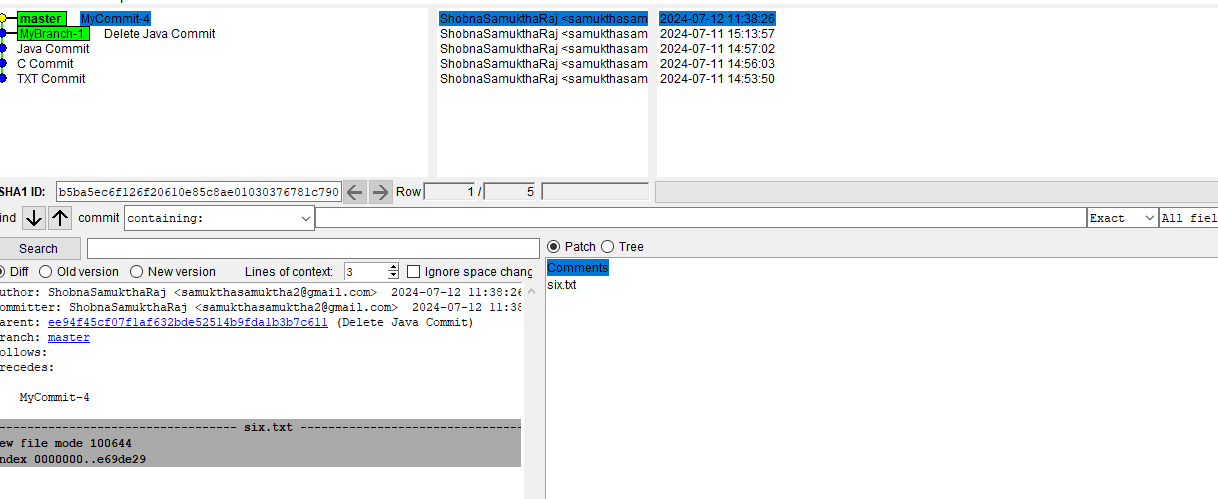
6. Use the **checkout** command to switch back to the master branch. Run **log** again. Notice your commits don’t show up now. Check the files also – they should have their original contents.



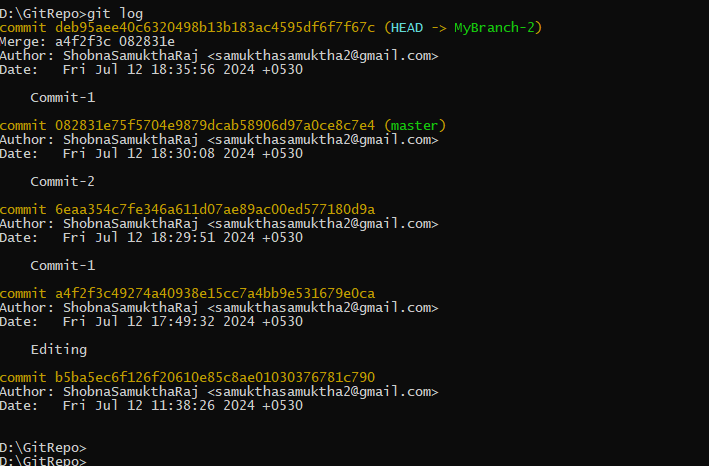
7. Use the **checkout** command to switch back to your branch. Use **gitk** to take a look at the commit graph; notice it’s linear



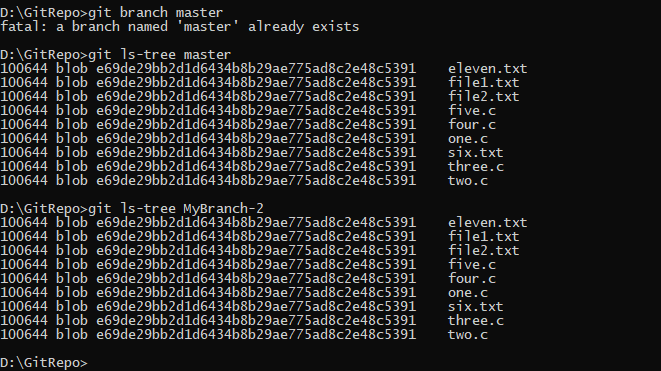
8. Now **checkout** the master branch again. Use the **merge** command to merge your branch in to it. Look for information about it having been a fast-forward merge. Look at **git log**, and see that there is no merge commit. Take a look in **gitk** and see how the DAG is linear.



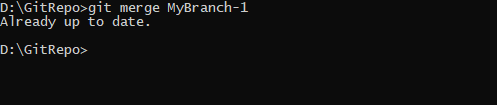
9. Switch back to your branch. Make a couple more commits.



10. Switch back to master. Make a commit there, which should edit a different file from the ones you touched in your branch – to be sure there is no conflict.



11.Now **merge** your branch again. (Aside: you don’t need to do anything to inform Git that you only want to merge things added since your previous merge. Due to the way Git works, that kind of issue simply does not come up, unlike in early versions of Subversion.)



12. Look at **git log**. Notice that there is a merge commit. Also look in **gitk**. Notice the DAG now shows how things forked, and then were joined up again by a merge commit.

