PRODUCT BASED TRAINING

EXERCISE 2

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DEPT   : BE CSE

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

```
D:\73772114150\src>git branch
* master
```

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

```
D:\73772114150\src>git branch MyBr
```

3.Use the checkout command to switch to it.

```
D:\73772114150\src>git checkout MyBr
D       file1.txt
D       file2.txt
Switched to branch 'MyBr'
```

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

```
D:\73772114150\src>git add file.txt
```

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

```
D:\73772114150\src>git commit —m "file.txt committed to new branch"
[MyBr a903d12] file.txt committed to new branch
 1 file changed, 1 insertion(+), 1 deletion(—)
```
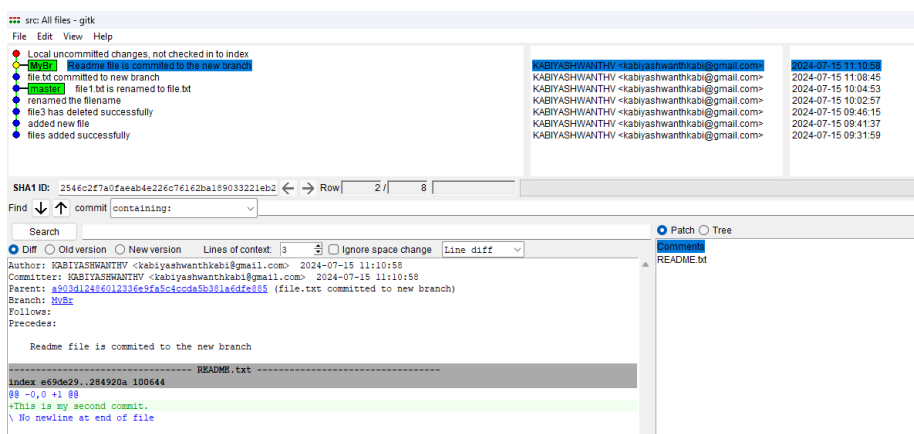
6. Use the checkout command to switch back to the master branch. Run log again. Notice your commits don't show up now. Check the files also – they should have their original contents.
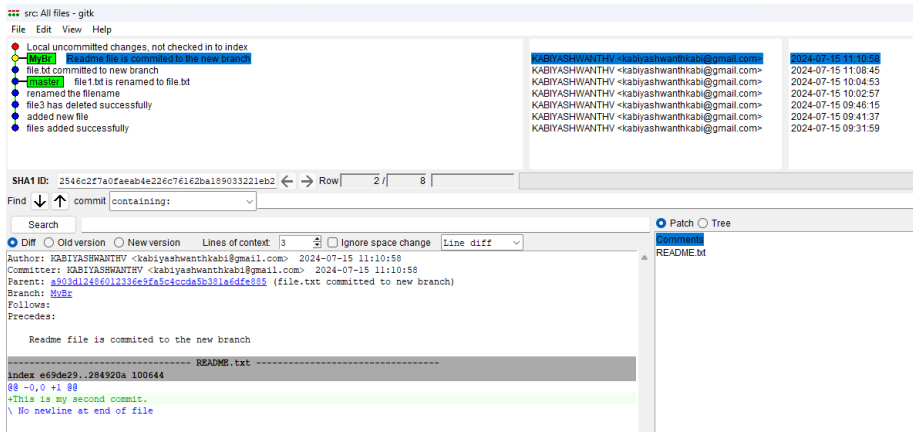
7. Use the checkout command to switch back to your branch. Use gitk to take a look at the commit graph; notice it's linear.

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.

```
D:\73772114150\src>git checkout master
D       file1.txt
D       file2.txt
Switched to branch 'master'

D:\73772114150\src>git merge MyBr
Updating 000c2f9..2546c2f
Fast-forward
 README.txt | 1 +
 file.txt   | 2 +-
 2 files changed, 2 insertions(+), 1 deletion(-)
```

9. 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.)

```
D:\73772114150\src>git checkout master
D       file1.txt
D       file2.txt
Switched to branch 'master'

D:\73772114150\src>git merge MyBr
Updating 2546c2f..e720fdf
Fast-forward
 README.txt | 2 +-
 file.txt   | 3 ++-
 2 files changed, 3 insertions(+), 2 deletions(-)
```

10. 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.

```
D:\73772114150\src>git log
commit e720fdf5986d9b9eeefa5897ce0206004d000f28 (HEAD -> master, MyBr)
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 11:21:38 2024 +0530

        committed Readme file

commit 2546c2f7a0faeab4e226c76162ba189033221eb2
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 11:10:58 2024 +0530

        Readme file is commited to the new branch

commit a903d12486012336e9fa5c4ccda5b381a6dfe885
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 11:08:45 2024 +0530

        file.txt committed to new branch

commit 000c2f95751f9258bcb9e51bb79089fae2cab6dd
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 10:04:53 2024 +0530

        file1.txt is renamed to file.txt

commit 1e81dcbebf34977ce19165c2c9138dd061609408
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 10:02:57 2024 +0530

        renamed the filename

commit 78bc711f6365501f29325df551eb7da9e6d06e85
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 09:46:15 2024 +0530

        file3 has deleted successfully

commit 272b15cbbae9e8ae2f98a2141075ce0f992bf895
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 09:41:37 2024 +0530

        added new file

commit 8fc3efdefa28b917b1697148aa8548b3717bcf8b
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 09:31:59 2024 +0530

        files added successfully
```