Experiment -1.2

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Branch: AIT-CSE(DEVOPS) **Section/Group:22BCD-1/A**
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Subject Name: GIT AND GITHUB **Subject Code: 22CSH-293**

1. Aim/Overview of the Practical:.To create branches in GitHub and interfacing with it.

2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

4. Steps for experiment:

To Create a branch on GitHub :

1. Login to your GitHub profile on Chrome.

2. Click on the repository where you want to do branching.

3. Click on Add the file to add a new file.

4. Give this file the name "**exp2. txt"** and add any code.

5. Click on the **"commit changes"** button to commit the change.

6. Provide **"commit message"** and **"Extended description"** and then click **"commit changes"**

7. Now go on that file and click on branch **"main"**.

8. Type a new branch name **"branch1"** and click **"Create branch branch1.c from main"**

9. Click on the **"edit"** button and edit the code.

10. After editing click on **"commit changes "** to commit the changes.

11. Add **"Commit message"** And **"Extended description"** and then click on **"Commit changes"**

12. After committing the changes go to **"parent repository"** and click **"compare and pull request".** Compare the code in two modes.

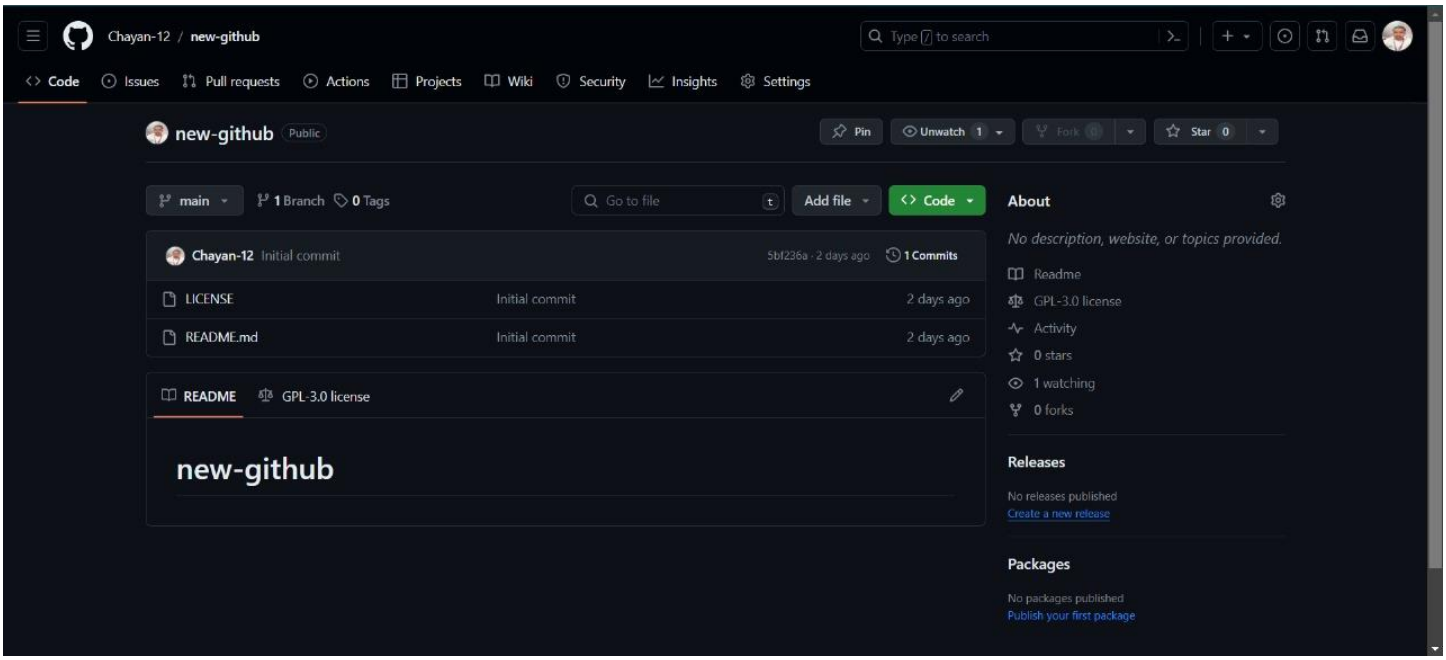
13. Click on **"Create pull request"** add **"title and description to code"** and then Click on **"Merge pull request"**

14. After Merging the code Click on **"Delete branch"** if you wish to delete the branch.

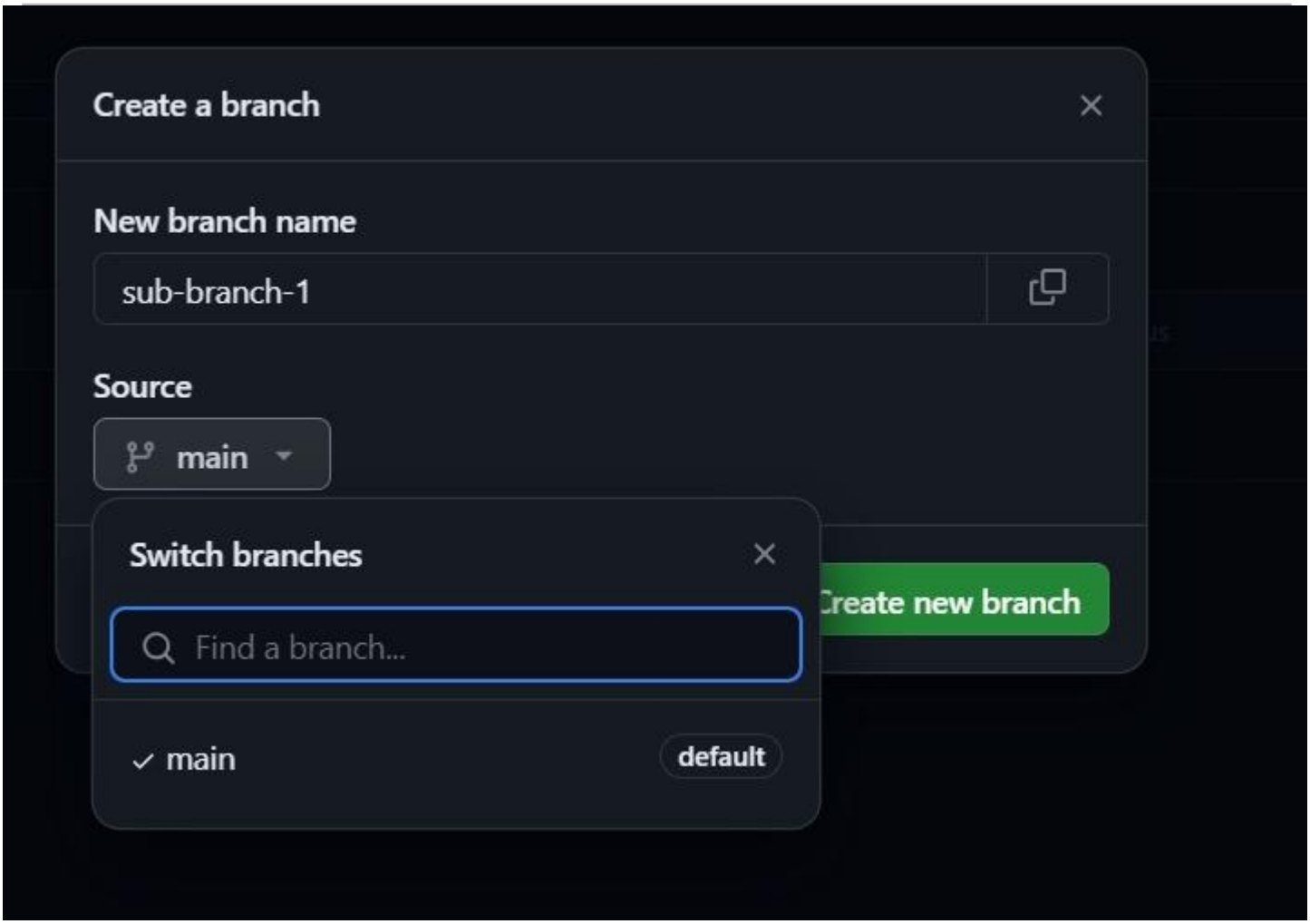
From Creating Branch On GitBash:

1. Create a new folder named **"git"** on the desktop.
2. Initialize the git using the *"git init"* command.
3. Create a new file using the *"vi command"*
For example, here we have created → **"exp2 cm.txt"**
4. Edit the file and add content to it.
5. Put the file in the staging area using *"git add (file name)"*
For example **"git add exp2.txt "**
6. Commit this file using the *"git commit -m "message"*
7. Create a new branch using code *"git checkout -b branch_name"*
8. Open and Edit the file using "vi file name" and add content.**"**
9. Commit this file using the *"git commit -m "message"*
10. Show the status of the file using *"git status"*.

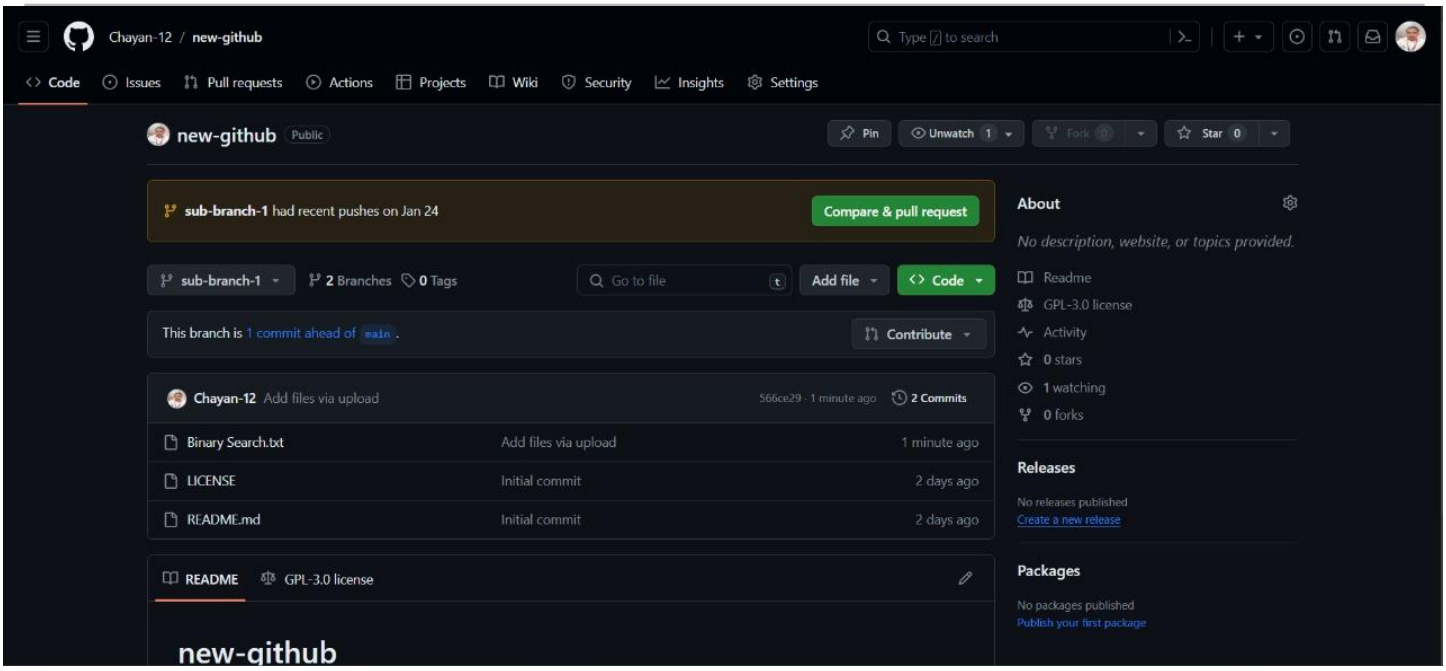
5. Outputs:



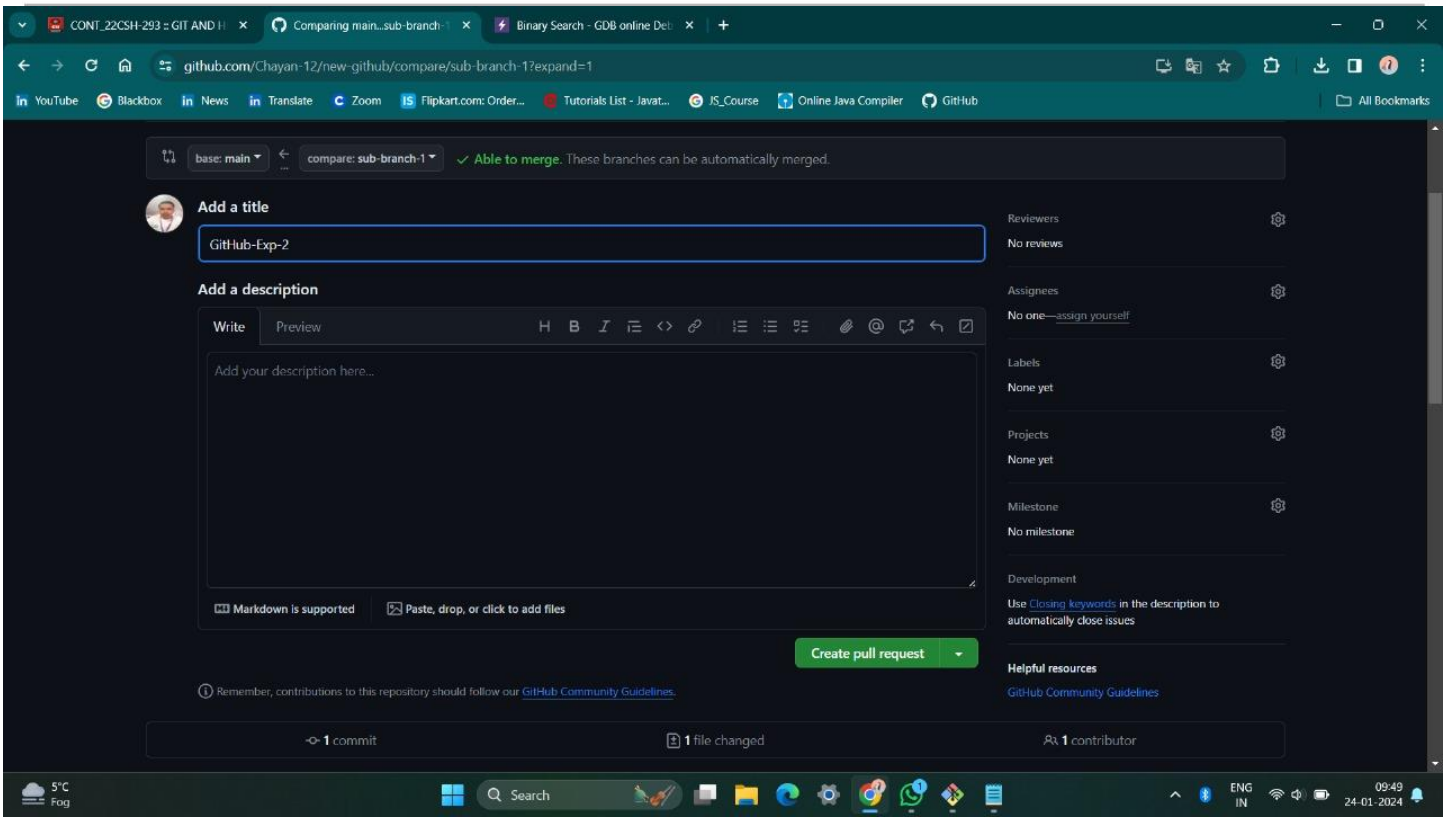
Add a new file in repository



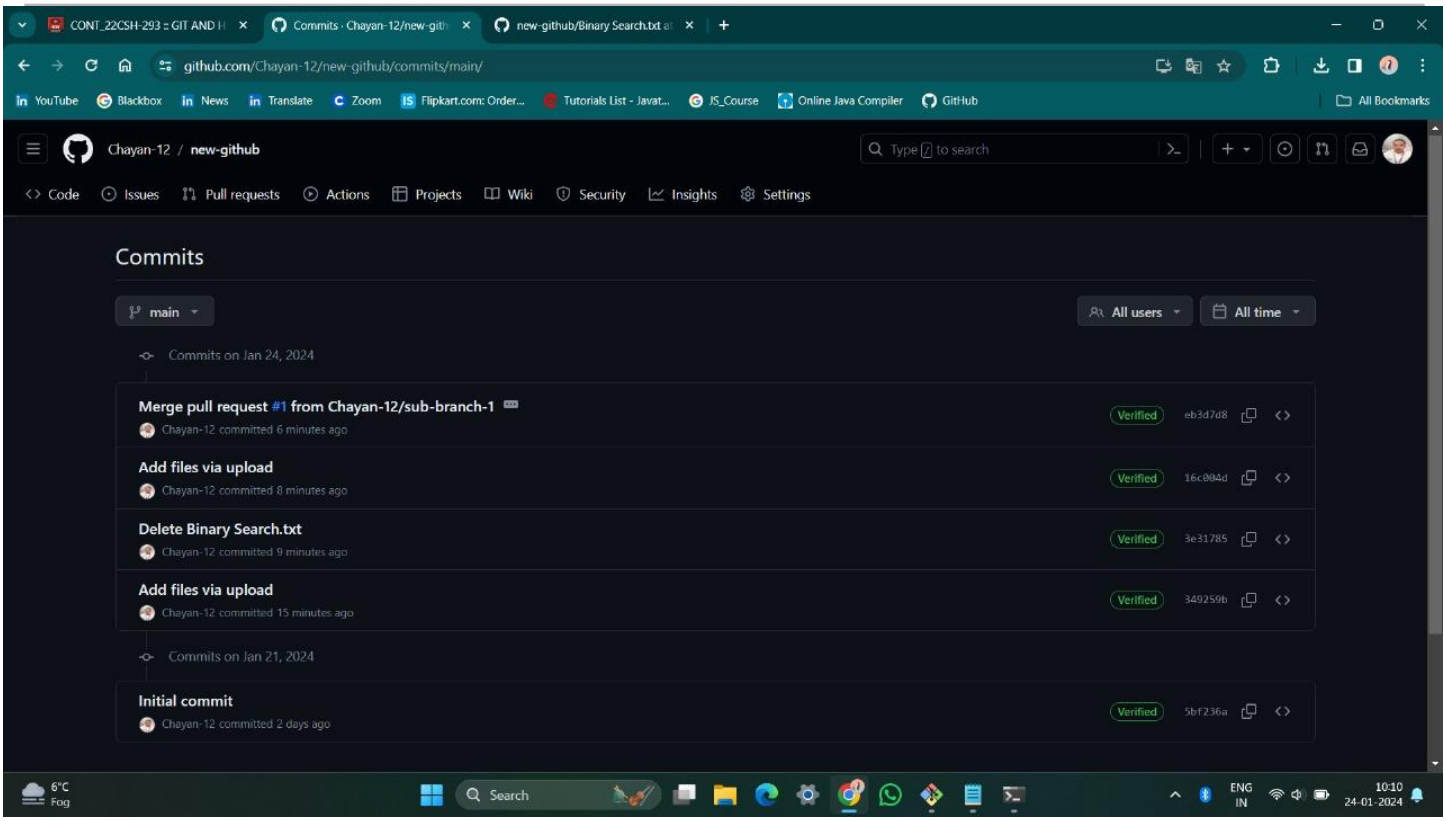
Create a branch for the file



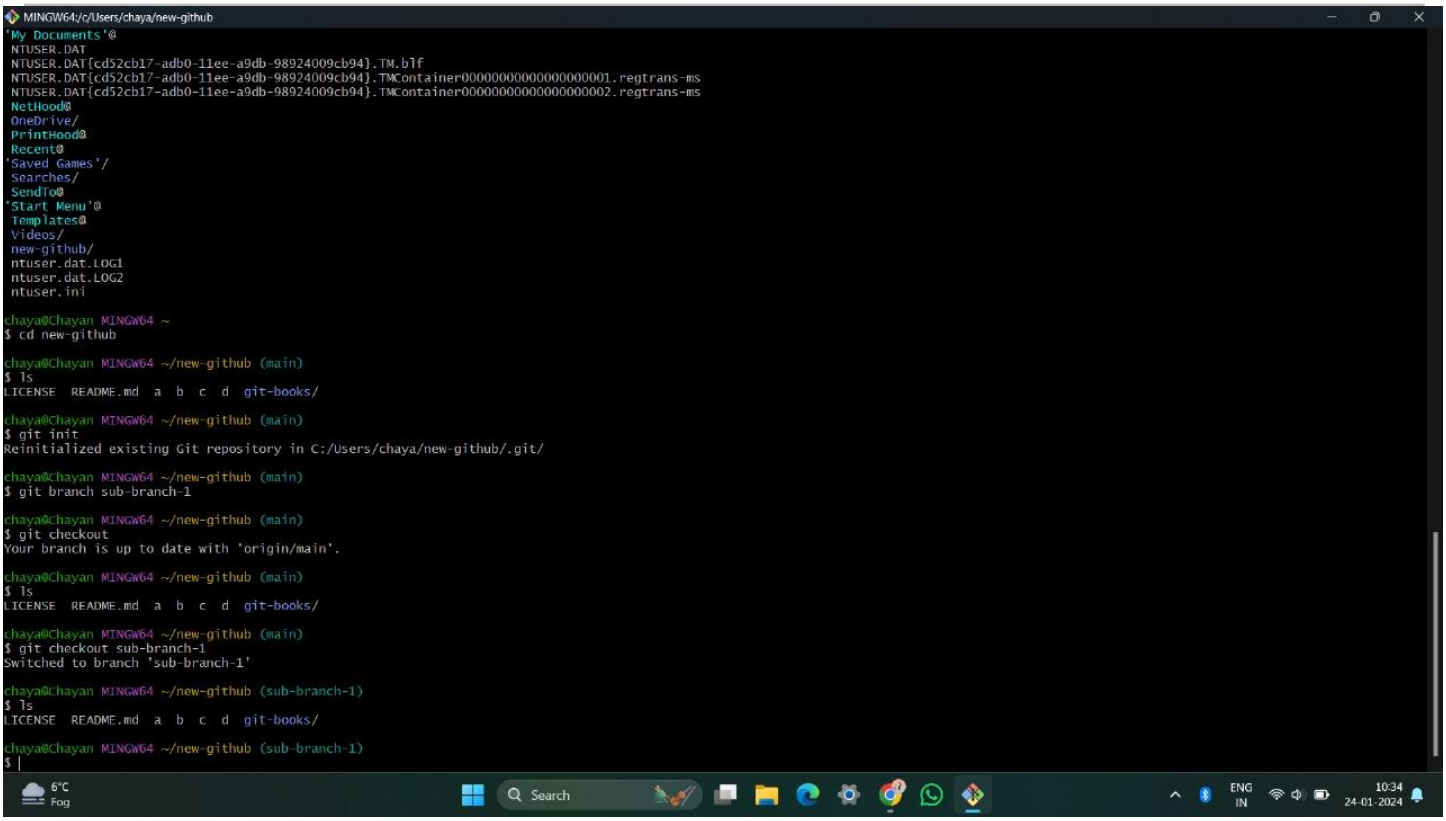
Now click on compare and pull request to compare and pull the request.



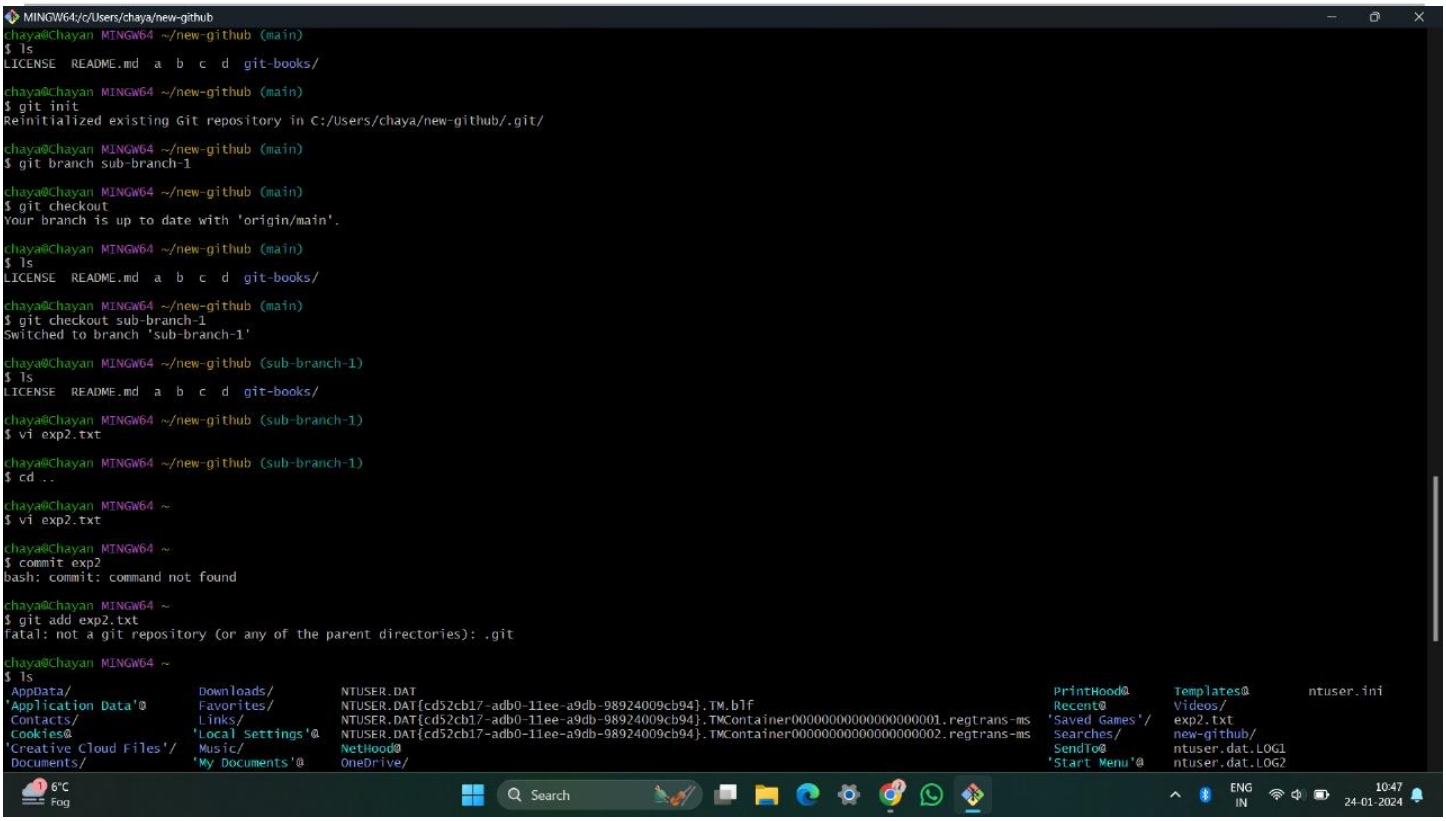
After editing, commit and create a pull request



Your merged branch looks like this



GitBash codes-1



GitBash codes-2

6. Result/Output/Writing Summary:

In this experiment, we have created a branch on a file in the repository using GitHub and Gitbash. We have merged this branch with the parent main branch.

7. Learning outcomes (What I have learnt):

1. Learnt About branching.

2. Learnt how to create a branch using Git Hub.

3. Learnt how to create a branch using gitbash.

4. Learnt how to merge the two branches.

5. Also learnt how to differentiate these two files.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			