

Experiment -1.2

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Branch: CSE (Devops)
Semester: 4th
Subject Name: Git and Git Hub

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Section/Group: 22BCD-1\A
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1. Aim/Overview of the practical:

Creating branches with GitHub and merging with the main branch.

2. Task to be done:

Create branch of a repository and make changes and merge the file into main branch.

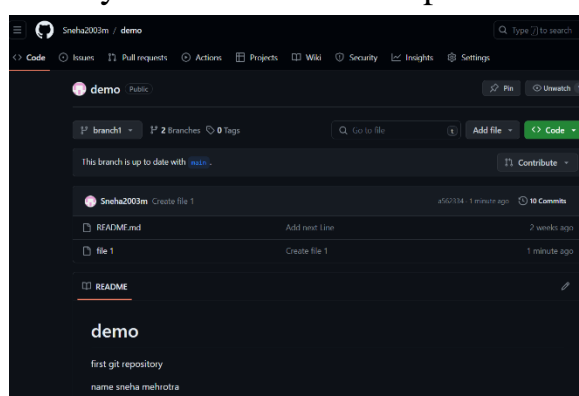
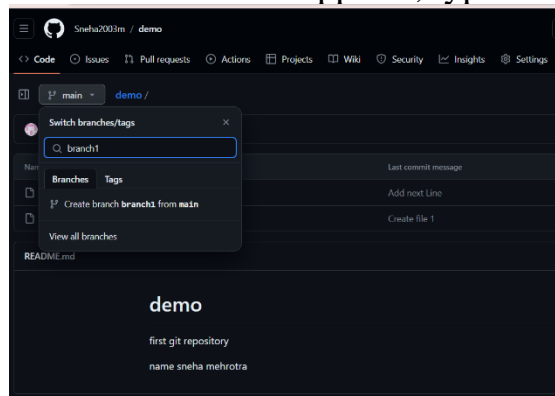
3. Steps for experiment/practical:

1. Create a New Branch:

Navigate to your GitHub repository on the web.

Click on the "Branch: main" button near the top left of the page.

In the text box that appears, type a name for your new branch and press Enter.



2. Make Changes:

Navigate to the newly created branch by clicking on the branch name dropdown and selecting your branch.

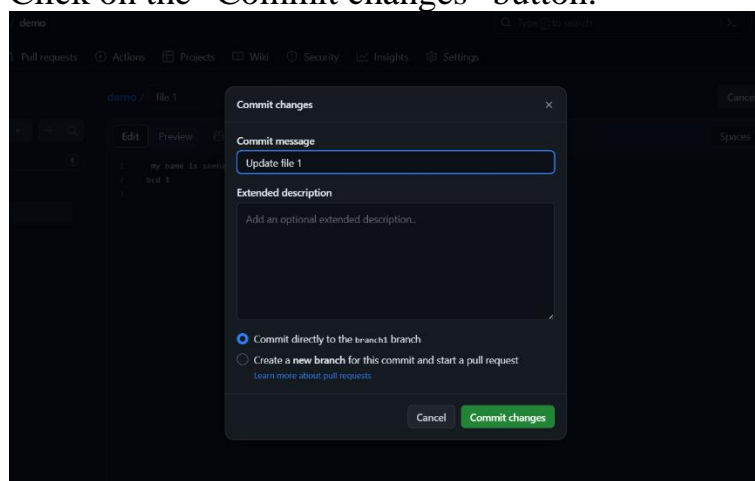
3. Edit and Commit Changes:

Make changes to your code or add new files.

Scroll down to the "Changes" section.

Enter a commit message in the "Commit changes" section.

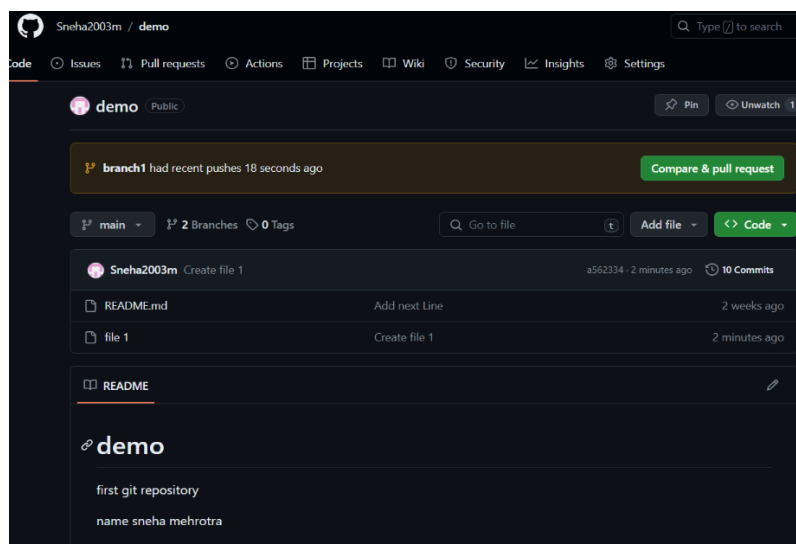
Click on the "Commit changes" button.



4. Create a Pull Request:

Once you've committed your changes to the new branch, GitHub will display a message with a "Compare & pull request" button.

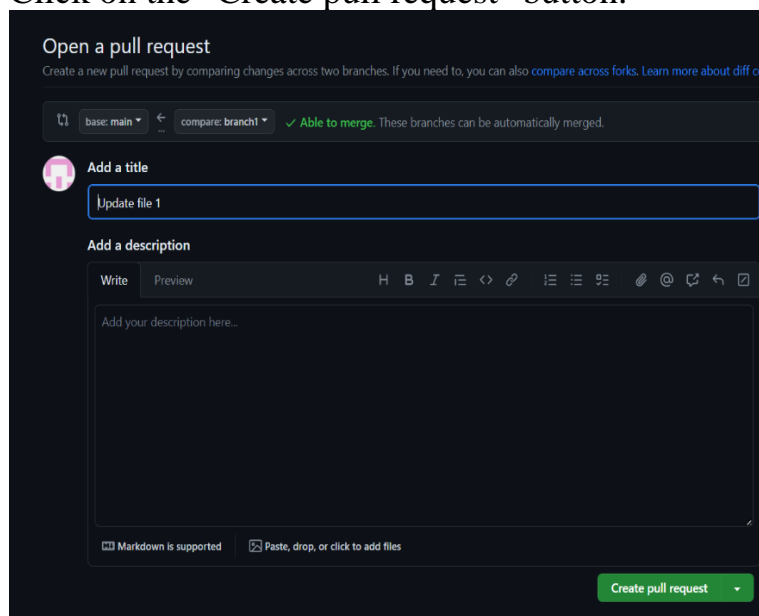
Click on the "Compare & pull request" button.



5. Open a Pull Request:

You'll be taken to a page where you can review your changes. Add any additional comments if needed.

Click on the "Create pull request" button.



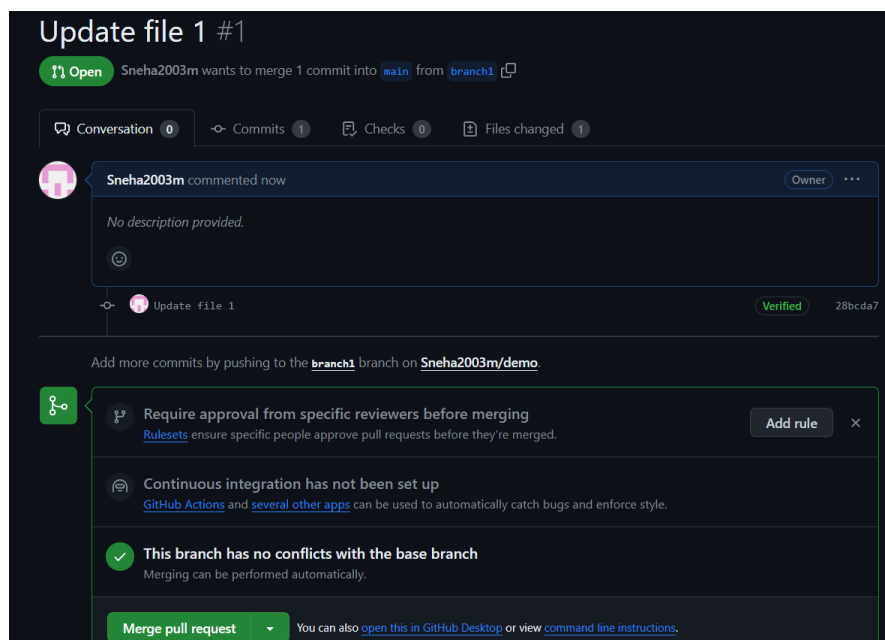
The screenshot shows the GitHub interface for creating a pull request. At the top, it says 'Open a pull request' and provides a brief explanation. Below this, there are dropdowns for 'base: main' and 'compare: branch1', with a green checkmark indicating 'Able to merge'. The 'Add a title' section has a text input field containing 'Update file 1'. The 'Add a description' section has a rich text editor with a 'Write' tab selected and a placeholder text 'Add your description here...'. At the bottom right, there is a green 'Create pull request' button.

6. Merge the Pull Request:

After the pull request is reviewed and approved, you can merge it.

Click on the "Merge pull request" button.

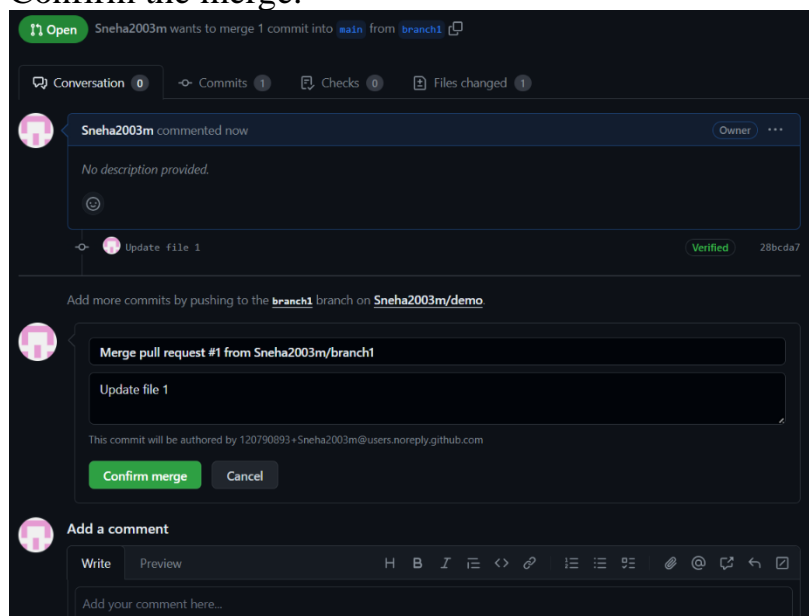
Optionally, confirm the merge.



The screenshot shows the GitHub pull request page for 'Update file 1 #1'. It indicates that 'Sneha2003m wants to merge 1 commit into main from branch1'. Below this, there are tabs for 'Conversation', 'Commits', 'Checks', and 'Files changed'. A comment from 'Sneha2003m' is visible, stating 'No description provided.' and showing a file diff for 'Update file 1'. At the bottom, there are three status messages: 'Require approval from specific reviewers before merging', 'Continuous integration has not been set up', and 'This branch has no conflicts with the base branch'. A green 'Merge pull request' button is at the bottom left.

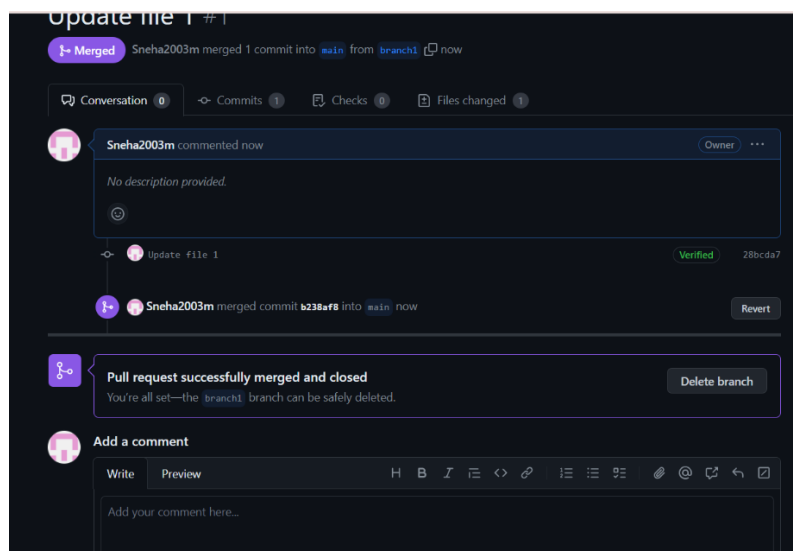
7. Confirm the Merge:

Once the pull request is merged, GitHub will prompt you to confirm the merge. Confirm the merge.



8. Delete the Branch (optional):

After merging, GitHub will give you the option to delete the branch. Choose to delete the branch if you no longer need it.



Learning outcomes (What I have learnt):

1. Understanding Git Bash Commands
2. Use of GitHub Repository URL
3. Creating a Local Copy using Git bash.
4. Navigating Directories.
5. Connecting Local and Remote Repositories

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.			