



Experiment -1.2

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Semester: Fourth Date of Performance: 24/01/2024

Subject Name: GIT AND GITHUB Subject Code: 22CSH-293

1. Aim/Overview of the Practical: To create branches with GitHub and use 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 "**myfile. c**" 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 "br24.c" and click "Create branch br24.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".
- 13. Compare the code in two modes.
- 14. Click on "Create pull request" And add "title and description to code"
- 15. Click on "Merge pull request"
- **16.** After Merging the code Click on "Delete branch" if you wish to delete the branch.

From Creating Branch On GitBash:

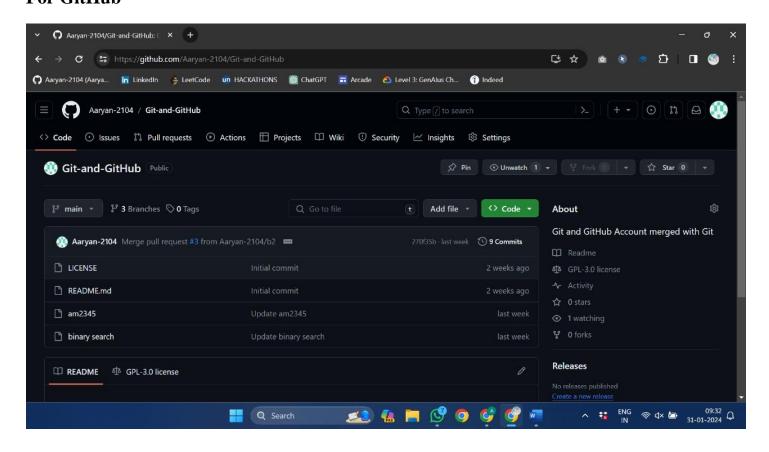
- 1. Create a new folder named "git" on the desktop.
- **2.** Initialize the git using the "git init" command.
- 3. Create a new file using the "vi command"
 For example, here we have created → "vi cm.txt"
- **4.** Edit the file and add content to it.
- **5.** Put the file in the staging area using "git add (file name)" For example "git add cm.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.** Put the file in the staging area using "git add (file name)" For example "git add cm.txt"
- **10.** Commit this file using the "git commit -m "message"
- 11. Move to the master branch using "git checkout master"
- **12.** Merge the branch using code "git merge new"
- 13. Show the status of the file using "git status".







5. Outputs: For GitHub

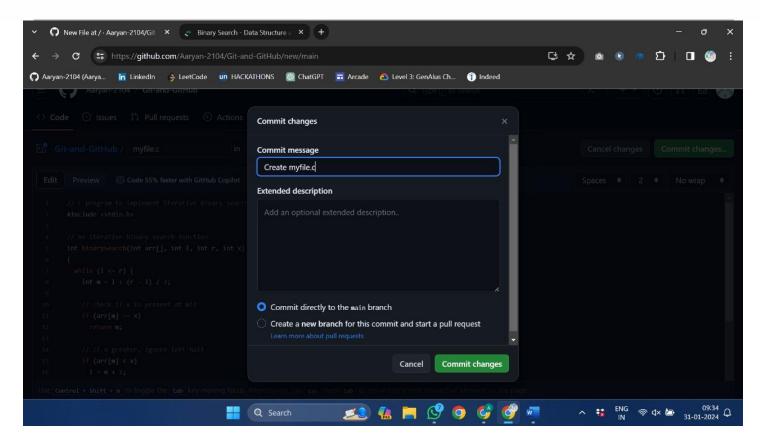


Create new file







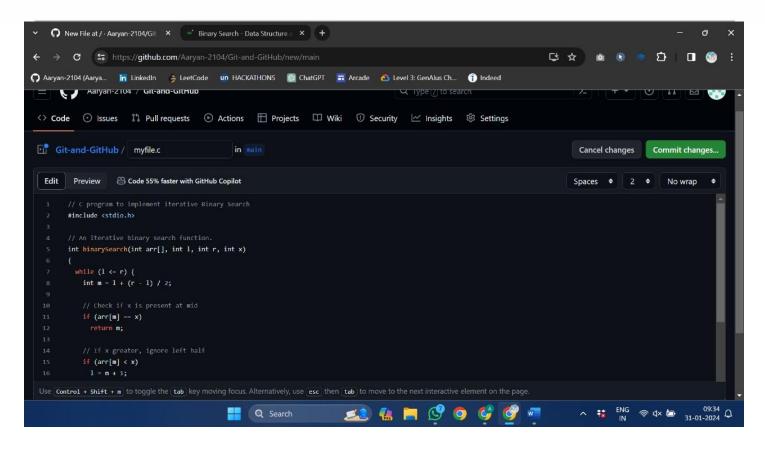


Give this file name as myfile.c







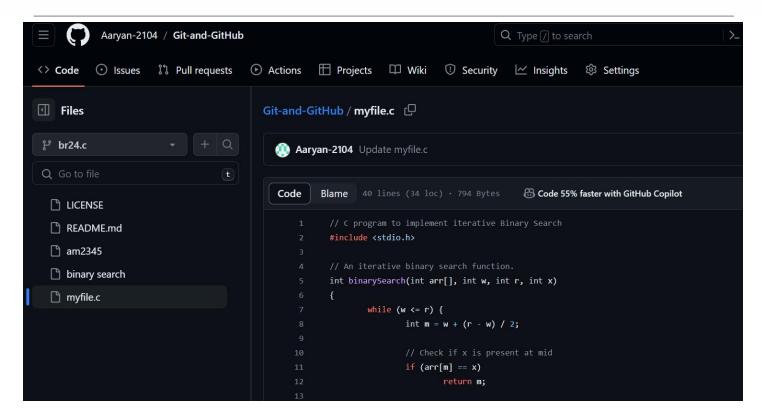


Add Binary Seach Code into this file







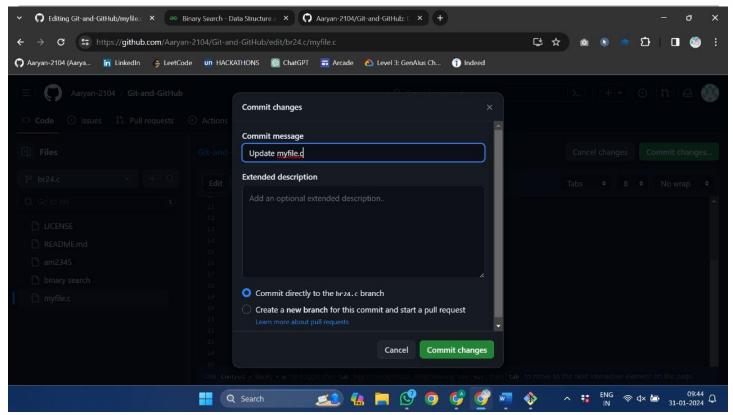


Now create a branch named br24.c







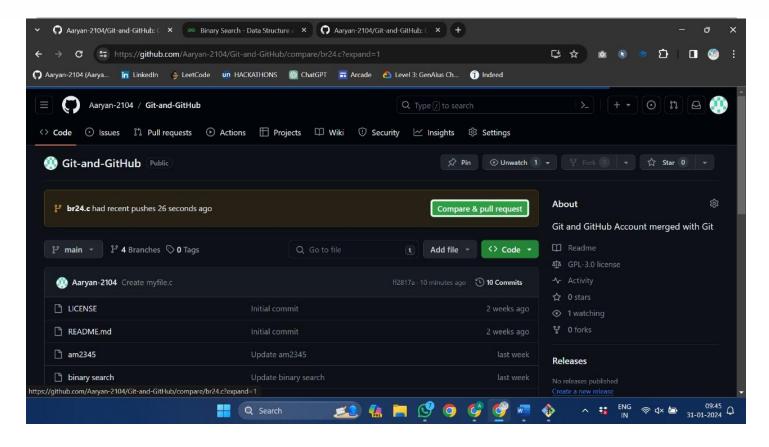


Edit this branch and click on commit changes







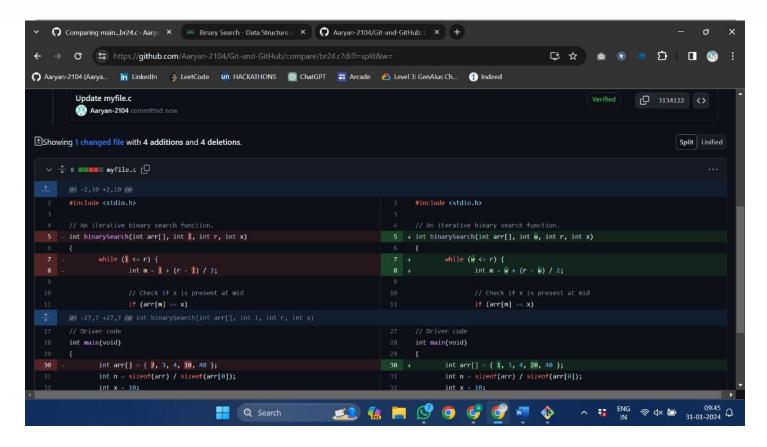


Click on Compare and Pull Request







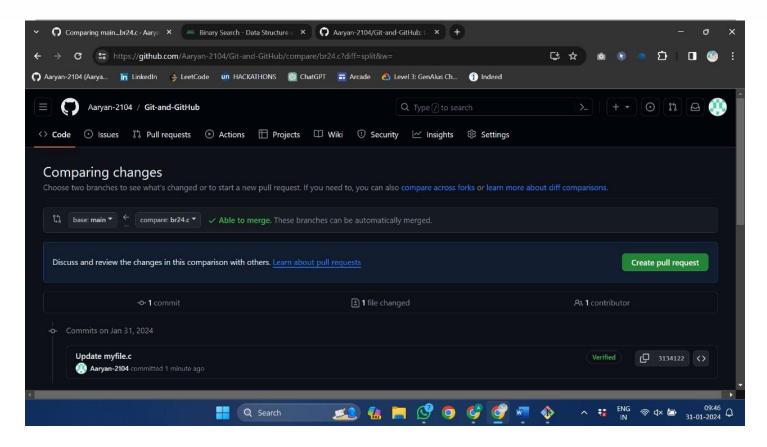


Compare the 2 codes in the Split Mode







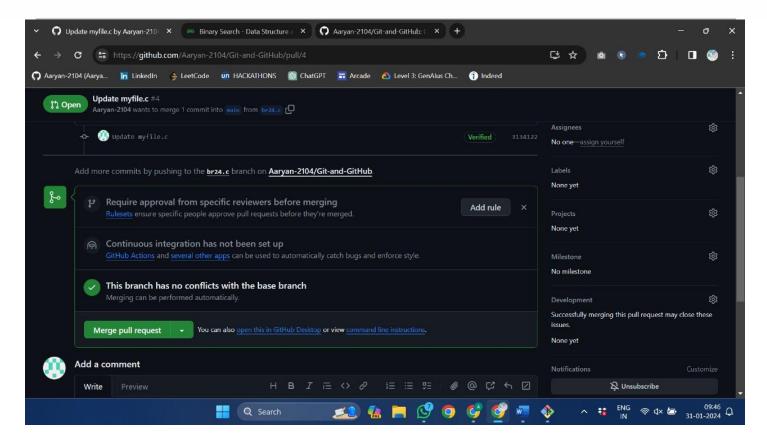


Click on Create Pull Request







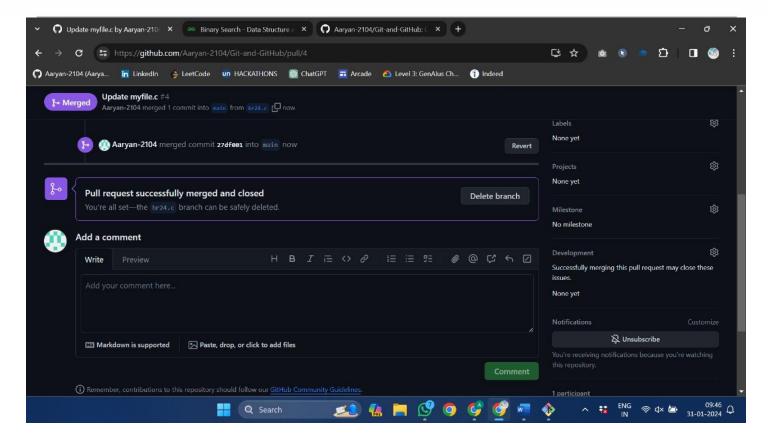


Click on Merge Pull Request









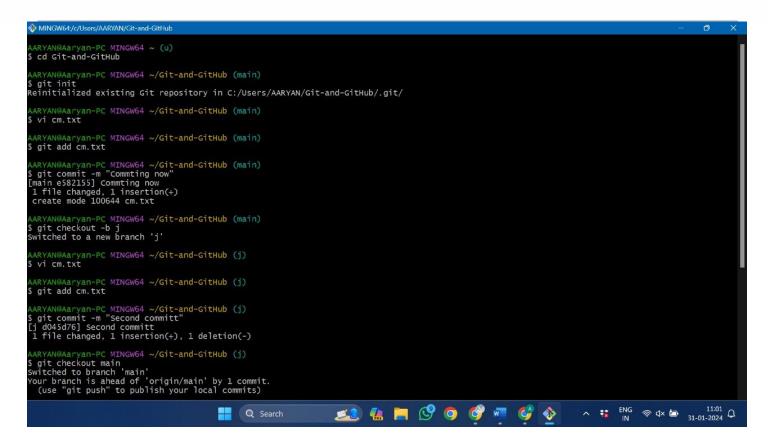
Pull Request successfully Merged and now you have an option to Delete as well. You can delete it as well

For GitBash --> (Creating Branch on GitBash)















```
AARYAN@Aaryan-PC MINGW64 ~/Git-and-GitHub (main)
$ git merge j
Updating e582155..d045d76
Fast-forward
cm.txt | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

AARYAN@Aaryan-PC MINGW64 ~/Git-and-GitHub (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

AARYAN@Aaryan-PC MINGW64 ~/Git-and-GitHub (main)
$
```

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.			

