



Experiment -1.2

Student Name:Chayan Gope

Branch: AIT-CSE(DEVOPS)

Semester: 4th

Subject Name: GIT AND GITHUB

UID: 22BDO10036

Section/Group:22BCD-1/A

Date of Performance: 24/01/2024

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.

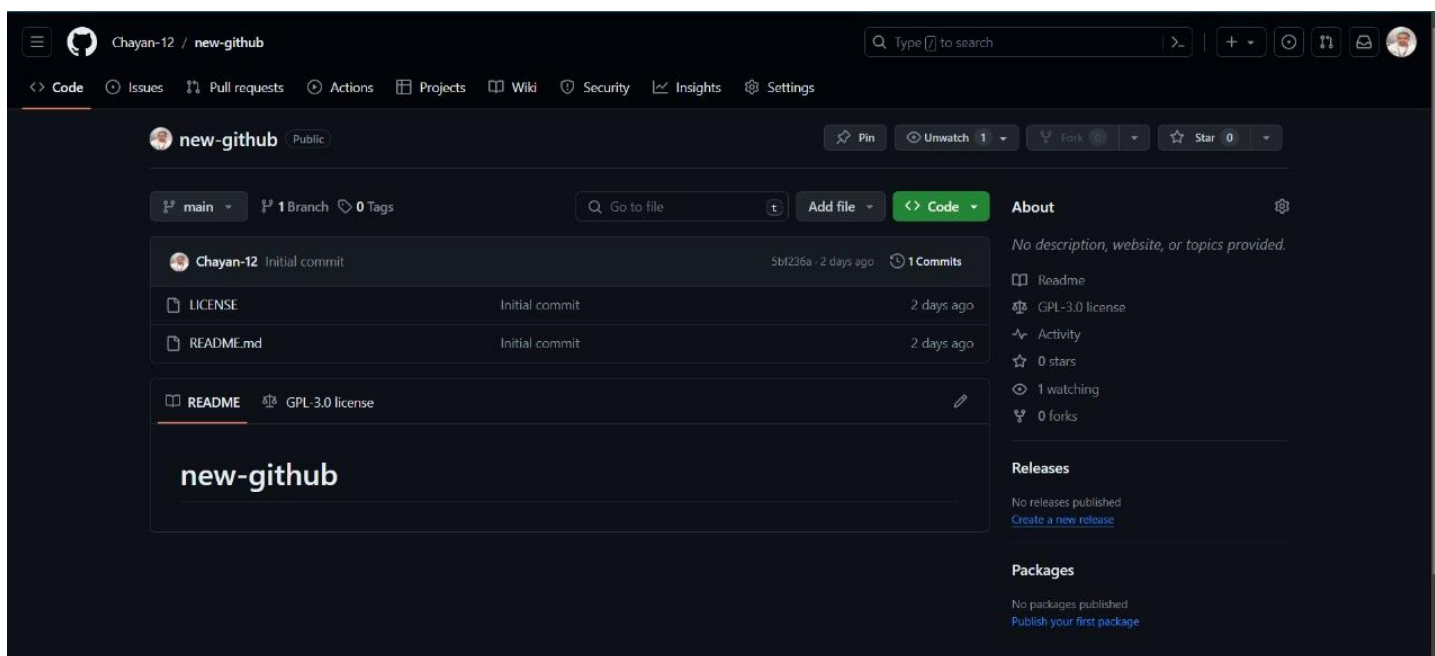
-
10. After editing click on “**commit changes** “ to commit the changes.
 11. Add “**Commit message**” And “**Extended description**” and then click on “**Commit changes**”
 12. After committing the changes go to “**parent repository**” and click “**compare and pull request**”. Compare the code in two 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:

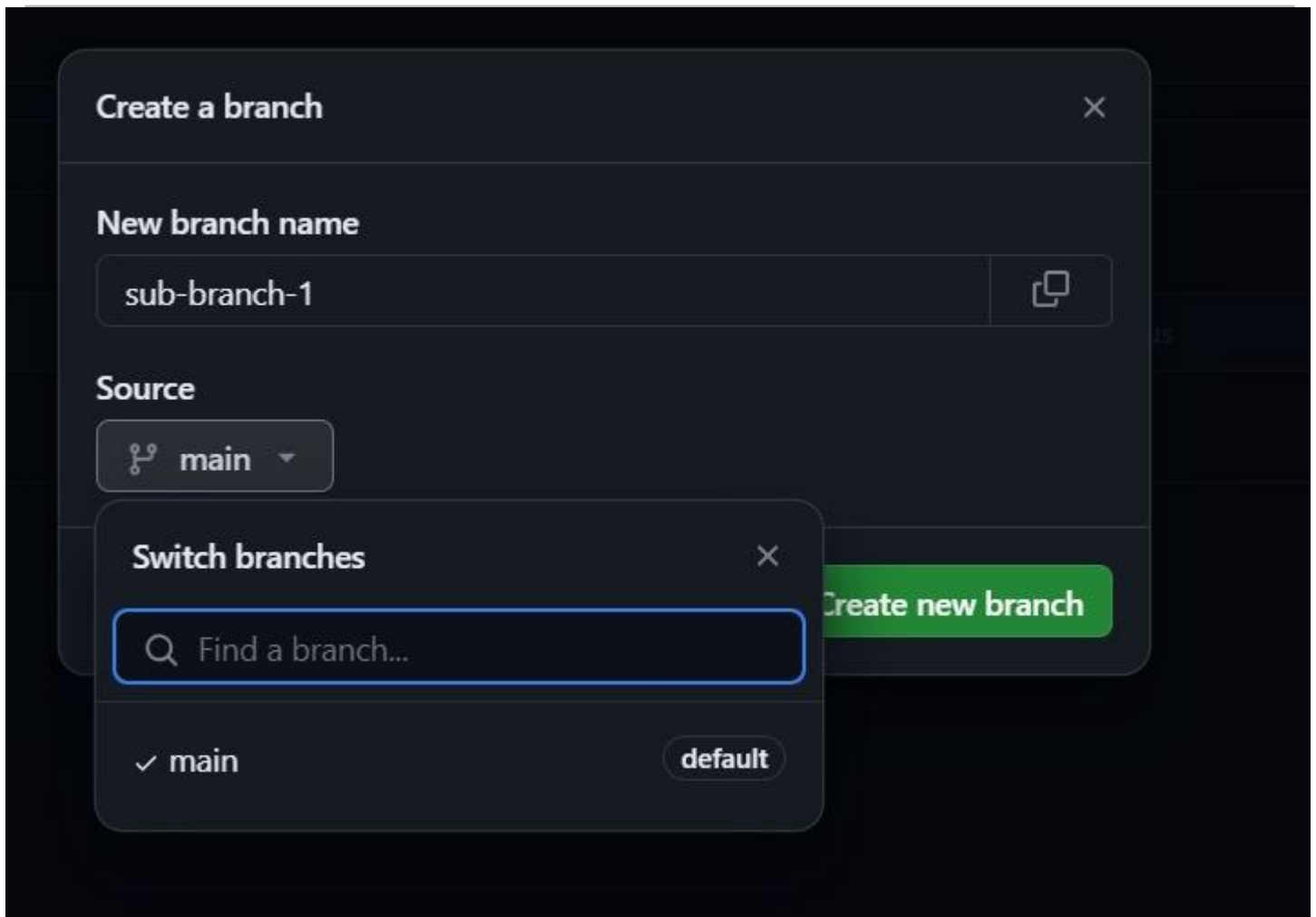


Add a new file in repository



DEPARTMENT OF ACADEMIC AFFAIRS

Discover. Learn. Empower.



Create a branch for the file



DEPARTMENT OF ACADEMIC AFFAIRS

Discover. Learn. Empower.



Chayan-12 / new-github

new-github (Public)

sub-branch-1 had recent pushes on Jan 24 [Compare & pull request](#)

sub-branch-1 2 Branches 0 Tags [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit ahead of main.

Chayan-12 Add files via upload 566ce29 · 1 minute ago 2 Commits

File	Commit	Time
Binary Search.txt	Add files via upload	1 minute ago
LICENSE	Initial commit	2 days ago
README.md	Initial commit	2 days ago

[README](#) [GPL-3.0 license](#)

About

No description, website, or topics provided.

[Readme](#)

[GPL-3.0 license](#)

[Activity](#)

[0 stars](#)

[1 watching](#)

[0 forks](#)

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

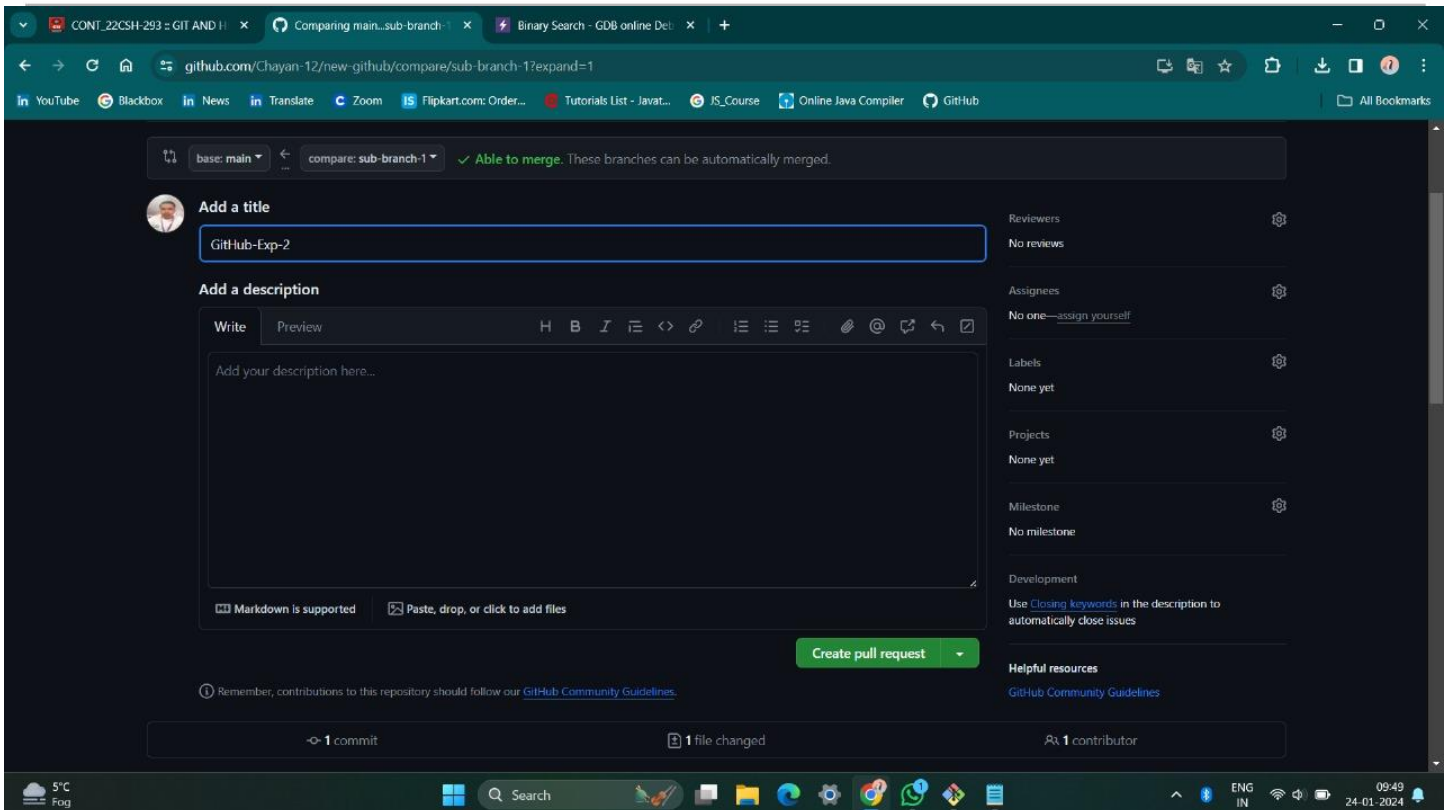
new-github

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

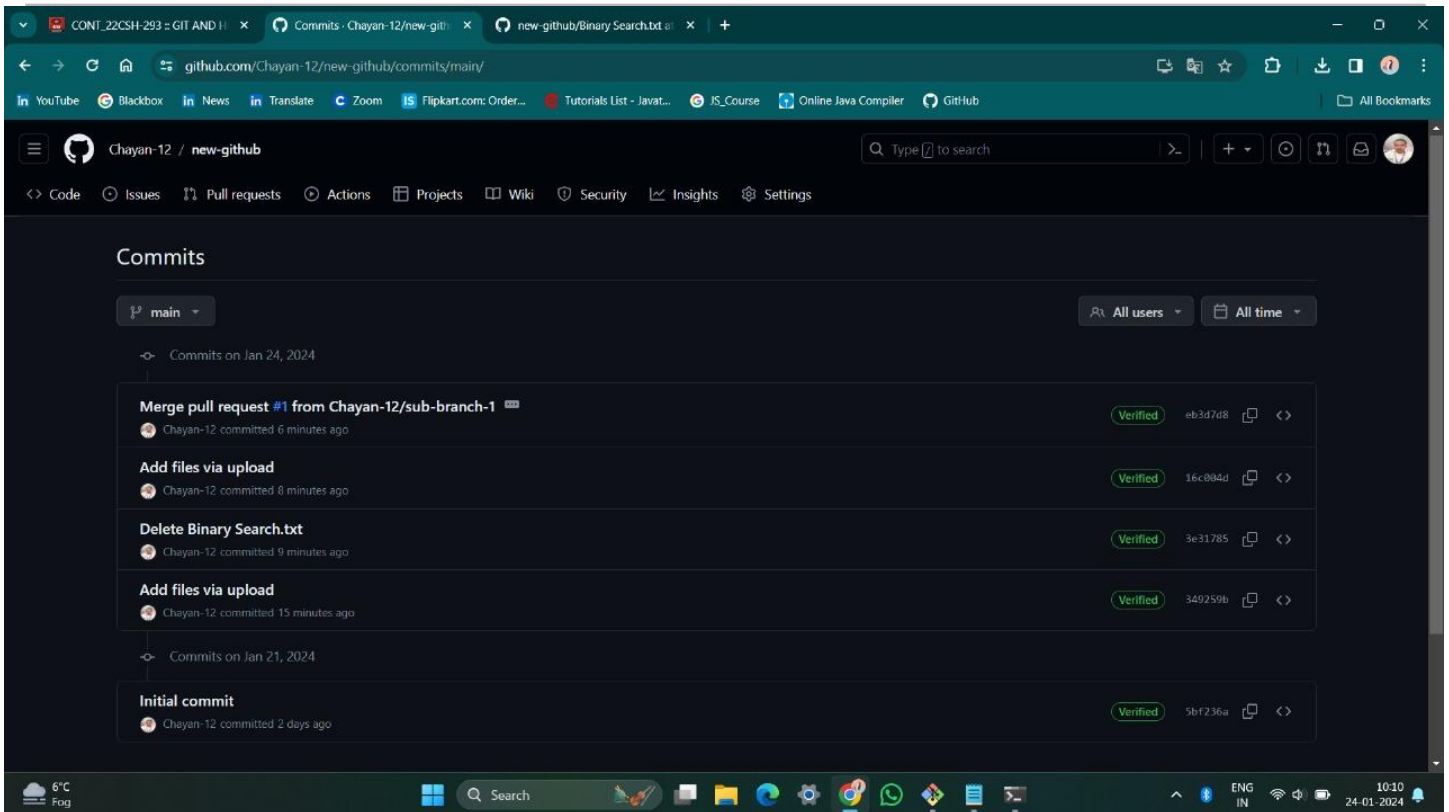


DEPARTMENT OF ACADEMIC AFFAIRS

Discover. Learn. Empower.



After editing, commit and create a pull request



Your merged branch looks like this



DEPARTMENT OF ACADEMIC AFFAIRS

Discover. Learn. Empower.



```
MINGW64/C:/Users/chaya/new-github
'My Documents'@
NTUSER.DAT
NTUSER.DAT{cd52cb17-adb0-11ee-a9db-98924009cb94}.TM.b1f
NTUSER.DAT{cd52cb17-adb0-11ee-a9db-98924009cb94}.TM.container00000000000000000001.regtrans-ms
NTUSER.DAT{cd52cb17-adb0-11ee-a9db-98924009cb94}.TM.container00000000000000000002.regtrans-ms
NetHood@
OneDrive/
PrintHood@
Recent@
'Saved Games'/
Searches/
SendTo@
'Start Menu'@
Templates@
Videos/
new-github/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

chaya@Chayan MINGW64 ~
$ cd new-github

chaya@Chayan MINGW64 ~/new-github (main)
$ ls
LICENSE  README.md  a  b  c  d  git-books/

chaya@Chayan MINGW64 ~/new-github (main)
$ git init
Reinitialized existing Git repository in C:/Users/chaya/new-github/.git/

chaya@Chayan MINGW64 ~/new-github (main)
$ git branch sub-branch-1

chaya@Chayan MINGW64 ~/new-github (main)
$ git checkout
Your branch is up to date with 'origin/main'.

chaya@Chayan MINGW64 ~/new-github (main)
$ ls
LICENSE  README.md  a  b  c  d  git-books/

chaya@Chayan MINGW64 ~/new-github (main)
$ git checkout sub-branch-1
Switched to branch 'sub-branch-1'

chaya@Chayan MINGW64 ~/new-github (sub-branch-1)
$ ls
LICENSE  README.md  a  b  c  d  git-books/

chaya@Chayan MINGW64 ~/new-github (sub-branch-1)
$ |
```

GitBash codes-1


```

MINGW64~/Users/chaya/new-github
chaya@Chayan MINGW64 ~/new-github (main)
$ ls
LICENSE README.md a b c d git-books/
chaya@Chayan MINGW64 ~/new-github (main)
$ git init
Reinitialized existing Git repository in C:/Users/chaya/new-github/.git/
chaya@Chayan MINGW64 ~/new-github (main)
$ git branch sub-branch-1
chaya@Chayan MINGW64 ~/new-github (main)
$ git checkout
Your branch is up to date with 'origin/main'.
chaya@Chayan MINGW64 ~/new-github (main)
$ ls
LICENSE README.md a b c d git-books/
chaya@Chayan MINGW64 ~/new-github (main)
$ git checkout sub-branch-1
Switched to branch 'sub-branch-1'
chaya@Chayan MINGW64 ~/new-github (sub-branch-1)
$ ls
LICENSE README.md a b c d git-books/
chaya@Chayan MINGW64 ~/new-github (sub-branch-1)
$ vi exp2.txt
chaya@Chayan MINGW64 ~/new-github (sub-branch-1)
$ cd ..
chaya@Chayan MINGW64 ~
$ vi exp2.txt
chaya@Chayan MINGW64 ~
$ commit exp2
bash: commit: command not found
chaya@Chayan MINGW64 ~
$ git add exp2.txt
fatal: not a git repository (or any of the parent directories): .git
chaya@Chayan MINGW64 ~
$ ls
AppData/ Downloads/ NTUSER.DAT PrintHood@ Templates@ ntuser.ini
'Application Data'@ Links/ NTUSER.DAT{cd52cb17-adb0-11ee-a9db-98924009cb94}.TM.btf Recent@ Videos/
Contacts/ 'Local Settings'@ NTUSER.DAT{cd52cb17-adb0-11ee-a9db-98924009cb94}.TM.Container00000000000000000001.regtrans-ms 'Saved Games'@ exp2.txt
cookies@ 'Creative Cloud Files'@ Music/ NetHood@ 'Start Menu'@ Searches/ new-github/
Documents/ 'My Documents'@ OneDrive/ SendTo@ ntuser.dat.LOG1
6°C Fog Search 10:47 24-01-2024

```

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.			