

Experiment -2.1

Student Name: Sneha Mehrotra

Branch: CSE(DEVOPS)

Semester: 4TH

Subject Name: GIT AND GITHUB

UID: 22BDO10048

Section/Group: 22BCD-1/A

Date of Performance: 07/02/2024

Subject Code: 22CSH-293

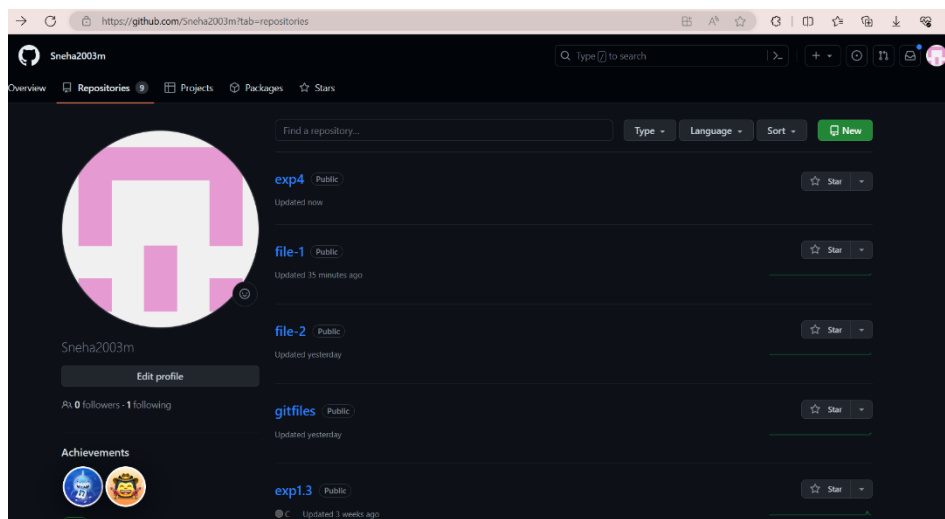
1. Aim/Overview of the practical:. Editing a file and committing changes on github.

2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

4. Steps for experiment:

1. Create a file on local device and open that folder with Git Bash.
2. Create a repository on Github with exp4 name and copy the http link.



3. Make clone of the repository using “*git clone http link*”

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp4
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4 (master)
$ git clone https://github.com/Sneha2003m/exp4.git
Cloning into 'exp4'...
warning: You appear to have cloned an empty repository.

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4 (master)
$ cd exp4

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$ vi exp4.txt
```

4. Change the current working directory using “**cd**” command: “*cd exp4*”

5. Create and edit a file using “**vi filename**” command: “*vi exp4.txt*”

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp4/exp4
this is exp4
```

6. Add the file using “**git add**” command

7. Commit the file using “**git commit -m**”message”” command.

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$ git add .

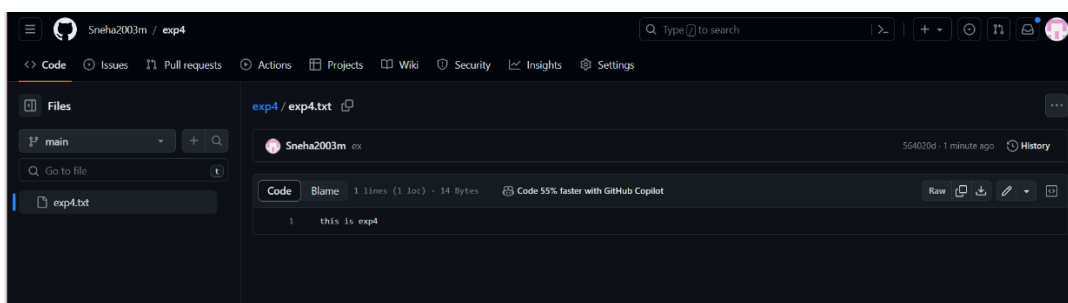
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$ git commit -m "ex"
[main (root-commit) 564020d] ex
1 file changed, 1 insertion(+)
create mode 100644 exp4.txt
```

8. Push the file into the remote repository using “**git push origin main**” command.

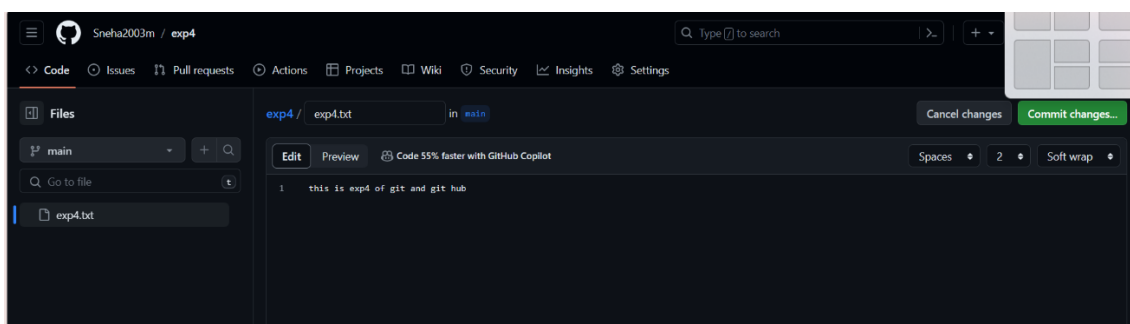
```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 216 bytes | 2
16.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sneha2003m/exp4.git
 * [new branch]      main -> main

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$
```

9. Go to the remote repository and verify the changes.



10. do changes in the remote repository file and commit the changes.



11. Pull the changes done in the remote repository by “git pull origin main”

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (main)
$ git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Total 3 (delta 0), reused 0 (delta
0), pack-reused 0
Unpacking objects: 100% (3/3), 919 bytes |
76.00 KiB/s, done.
From https://github.com/Sneha2003m/exp4
* branch          main       -> FETCH_H
EAD
564020d..8bcb424  main       -> origin/
main
Updating 564020d..8bcb424
Fast-forward
 exp4.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletio
n(-)
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (main)
$ vi exp4.txt
```

12. verify the change by opening the file with “vi exp4.txt”

```
MINGW64/c/Users/sneha/OneDrive/Desktop/exp4/exp4
this is exp4 of git and git hub
~
~
~
~
~
```

13. Now create a branch by “git checkout -b nope”

14. Edit the file in the branch by “vi exp4.txt”

15. go to main branch and merge the branch by “git merge nope”

```
MINGW64/c/Users/sneha/OneDrive/Desktop/exp4/exp4
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (main)
$ vi exp4.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp4/exp4 (main)
$ git checkout -b nope
Switched to a new branch 'nope'

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ vi exp4.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ git add .

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ git commit -m "branch commit"
On branch nope
nothing to commit, working tree clean

MINGW64/c/Users/sneha/OneDrive/Desktop/exp4/exp4
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (main)
$ git merge nope
Already up to date.
```

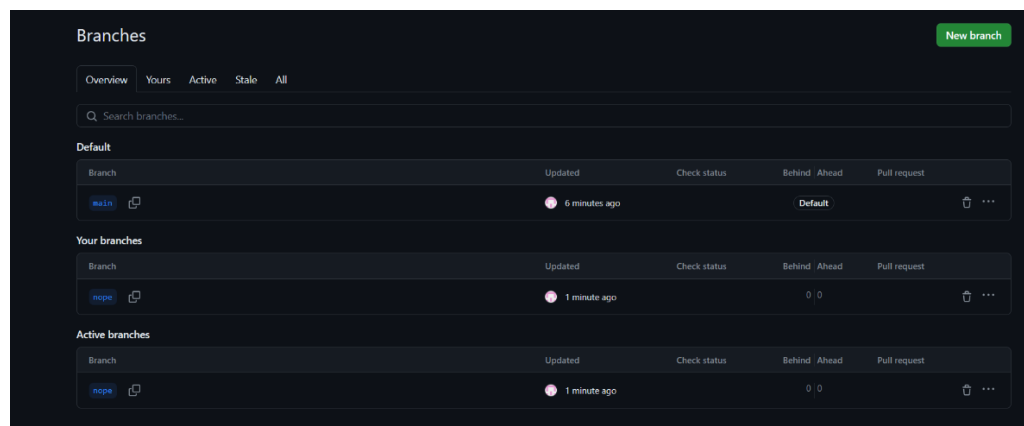
16. Now push the two main and nope branch by “git push branch_name”..

```
MINGW64 ~/OneDrive/Desktop/exp4/exp4
$ git push origin main
Everything up-to-date

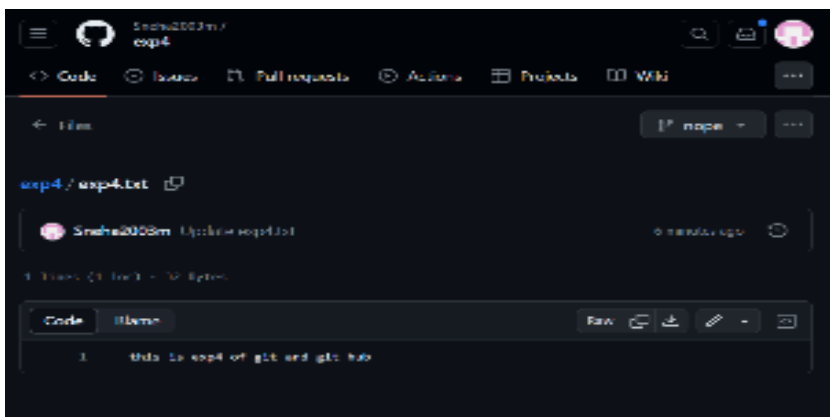
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (main)
$ git checkout nope
Switched to branch 'nope'

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ git push origin nope
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'nope' on GitHub by visiting:
remote: https://github.com/sneha2003m/exp4/pull/new/nope
remote:
To https://github.com/sneha2003m/exp4.git
 * [new branch]      nope -> nope
```

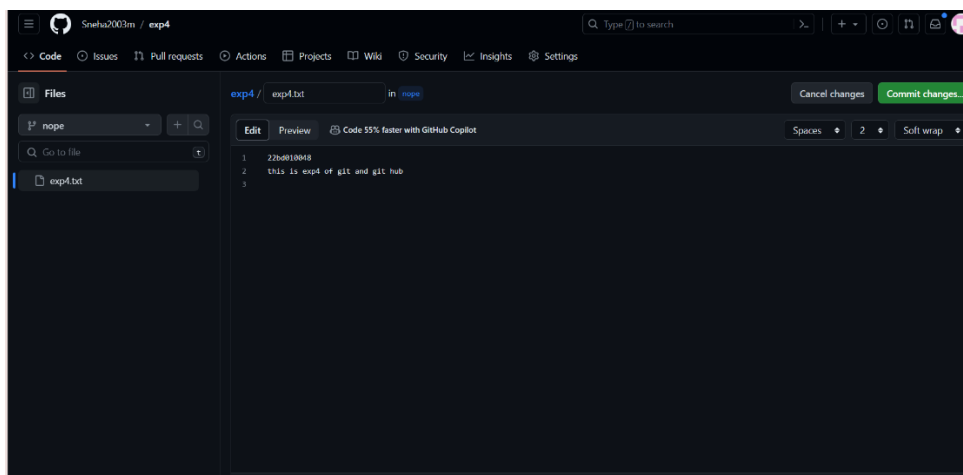
17. verify the pushed branch on github



18. Verify the merge content of file on Github.



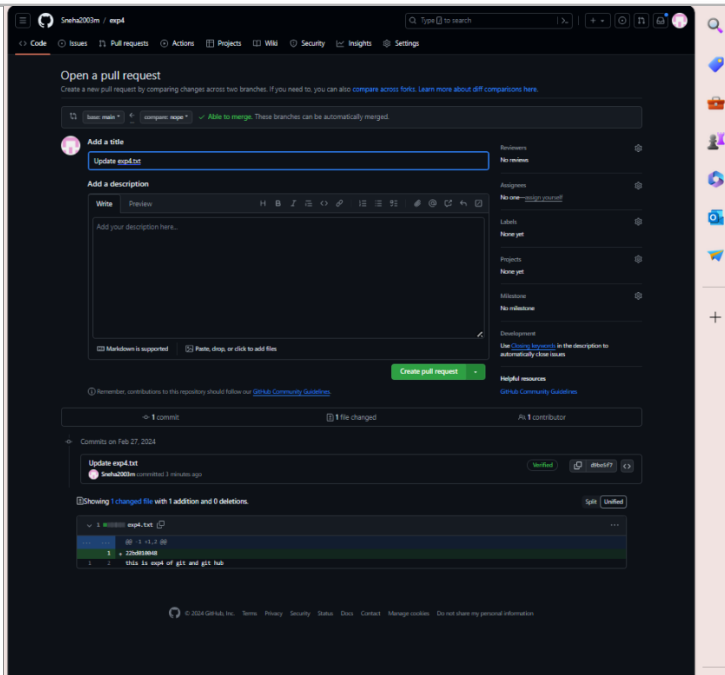
19. Now editing the file on github with the branch nope



20. Create a branch on the github and edit the file and commit the change.

21. Commit the changes on the remote repository on the Github.

22. Pull the changes in the local machine using “**git pull origin main**”.



```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ git pull origin main
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), do
ne.
remote: Compressing objects: 100% (5/5), d
one.
remote: Total 8 (delta 0), reused 0 (delta
0), pack-reused 0
Unpacking objects: 100% (8/8), 3.54 KiB |
164.00 KiB/s, done.
From https://github.com/Sneha2003m/exp4
* branch      main      -> FETCH_H
EAD
8bcb424..41cd925 main      -> origin/
main
Updating 8bcb424..41cd925
Fast-forward
 exp4.txt | 2 ++
 1 file changed, 2 insertions(+)

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/D
esktop/exp4/exp4 (nope)
$ vi exp4.txt
```

23. Verify the changes on the local machine by “vi exp4.txt

”



DEPARTMENT OF ACADEMIC AFFAIRS

Discover. Learn. Empower.



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.			