



## **Experiment -1.3**

To create and explore pull request.

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**Branch:** CSE(DevOps) Section/Group: 22BCD-1/B

Semester: 4th Date of Performance: 02-02-24

Subject Name: Git and GitHub Subject Code: 22CSH-293

**1. Aim of the practical:** To create and explore pull request.

**2.** Task to be done: In this experiment, we have to create and explore pull request in both GUI and CLI i.e., GitHub and Git Bash.

## 3. Steps for experiment/practical:

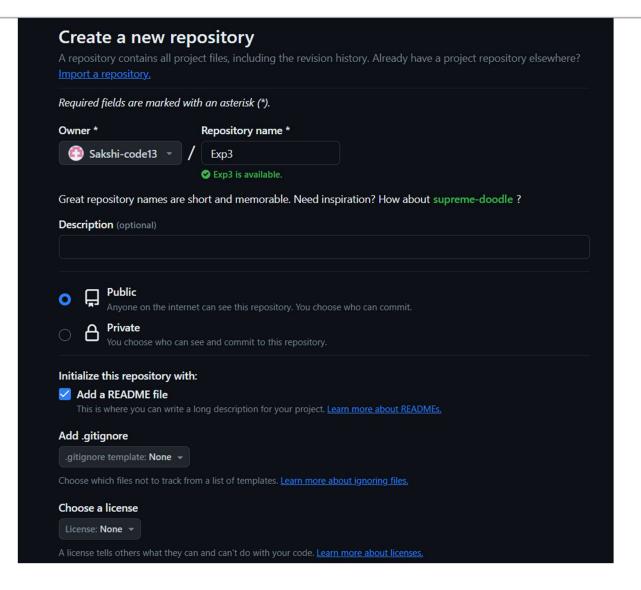
1. Firstly, we have to login to our GitHub account. After that we have to make one new repository on GitHub. After that, we will create the directory and then we will initialize it. By using the following command, we will initialize the git.

\$ git init





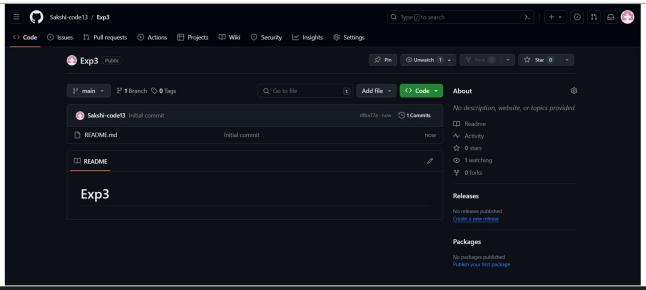












MINGW64:/c/Users/ADMIN

ADMIN@LAPTOP-RFULERMP MINGW64 ~ (master)

\$ git init

Reinitialized existing Git repository in C:/Users/ADMIN/.git/

2. Then, we have to clone the repository by using the following command.

\$ git clone "url of your github repositories"

ADMIN@LAPTOP-RFULERMP MINGW64 ~ (master) \$ git clone "https://github.com/Sakshi-code13/Exp3.git" Cloning into 'Exp3'... remote: Enumerating objects: 3, done. remote: Counting objects: 100% (3/3), done. remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 Receiving objects: 100% (3/3), done.

3. Now, we will check the status by the following command: -

\$ git status







```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
```

4. We will create a file and edit it, by using the cat command: -

\$ vi File name.txt as here we have used \$ vi Exp3.txt

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main) $ vi Exp3.txt
```

5. Then, we will add the file and then commit it by using the following commands: - \$ git add .

\$ git commit -m "Message"

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)
$ git add .
warning: in the working copy of 'Exp3.txt', LF will be replaced by CRLF the next
time Git touches it
```

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)

$ git commit -m"Committed Successfully"

[main c0028ce] Committed Successfully

1 file changed, 2 insertions(+)

create mode 100644 Exp3.txt
```

6. Now, we will create a new branch, by using the following command:-

\$ git checkout -b branch\_name as here we have used \$ git checkout -b branch1

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)
$ git checkout -b branch1
Switched to a new branch 'branch1'
```







- 7. In this, we have to add a file in this new branch and by using the following command we will achieve that:-
  - \$ vi File name.txt as here we have used \$ vi Exp3.txt

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)
$ vi Exp3.txt
```

8. Now, we will add and commit the file by using the following commands:\$ git add.

\$ git commit -m "Message you want to print"

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ git add .
warning: in the working copy of 'Exp3.txt', LF will be replaced by CRLF the next time Git touches it

ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ git commit -m"Successfully done"
[branch1 91a5c77] Successfully done

1 file changed, 1 insertion(+)
```

9. Once again we will switch the branch to the main by using the following command: \$ git checkout main

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)
```

10. Now we will push main to the GitHub, by using the following command:-







\$ git push origin main

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)

$ git push origin main
Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 308 bytes | 308.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Sakshi-code13/Exp3.git

dfba77e..c0028ce main -> main
```

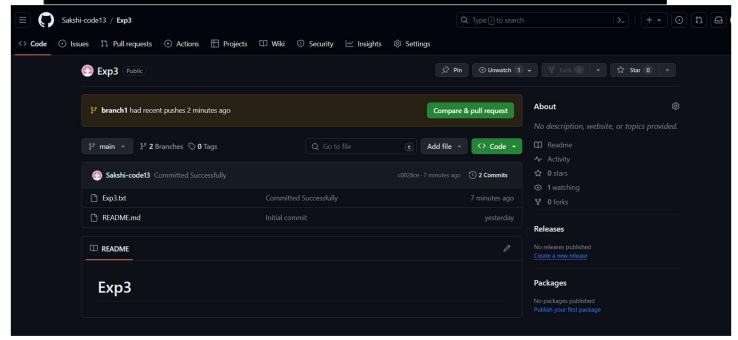
- 11. Then, we will checkout to the branch1 and push it too on the GitHub, by using the commands:-
- \$ git checkout branch1 \$ git push origin branch1







```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)
$ git checkout branch1
Switched to branch 'branch1'
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)
$ git push origin branch1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
              https://github.com/Sakshi-code13/Exp3/pull/new/branch1
remote:
remote:
To https://github.com/Sakshi-code13/Exp3.git
                       branch1 -> branch1
 * [new branch]
```





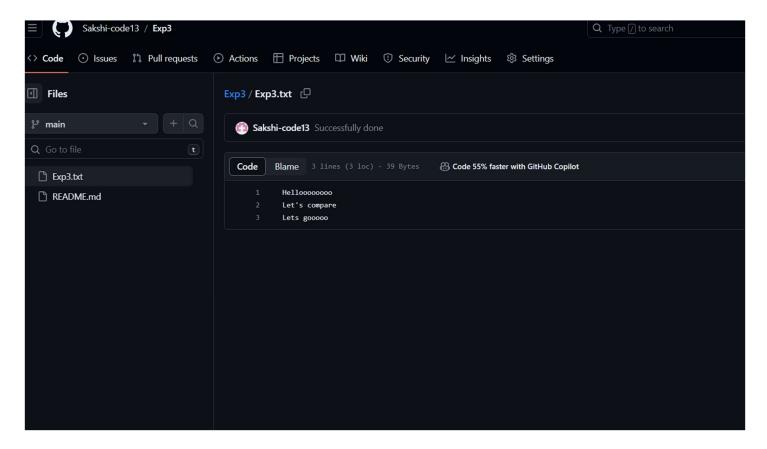




**12.** Now, we can see the content of the file by using the following command, and also on GitHub:-

\$ cat Exp3.txt

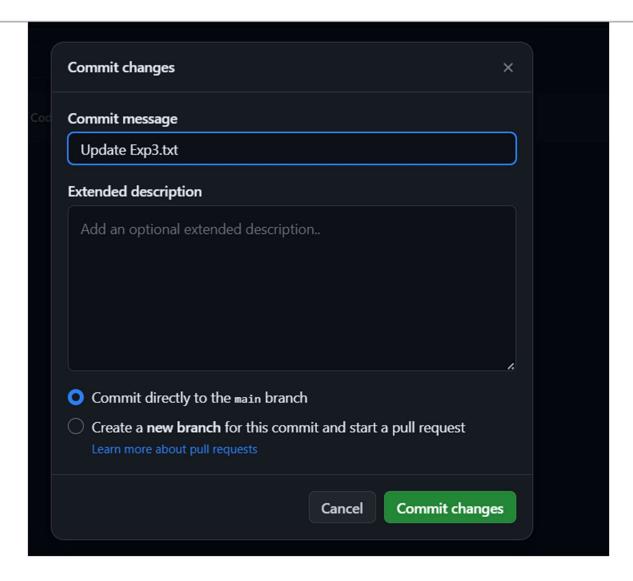
```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)
$ cat Exp3.txt
Helloooooooo
Let's compare
Lets gooooo
```









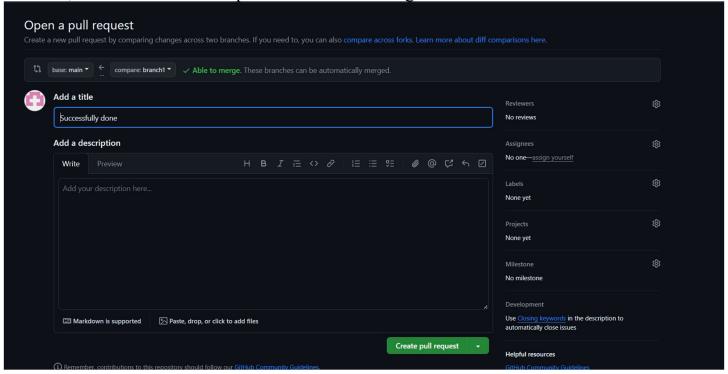








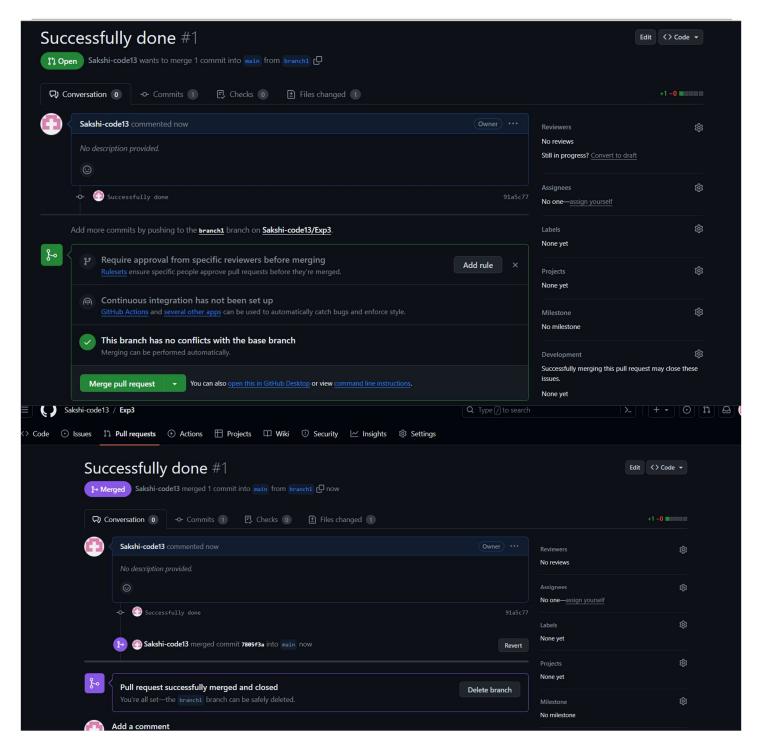
13. Now, we will Pull and compare and after that merge it.

















**14.** Although after making changes to the file on the GitHub, we will use fetch command to fetch the updated details on the screen but it will show the older result.

**15.** But, by using the command \$ git pull origin main we can see the updated result by using the command \$ cat Exp3.txt

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ git pull origin main
From https://github.com/Sakshi-code13/Exp3

* branch main -> FETCH_HEAD

Updating 91a5c77..5f675fe

Fast-forward
Exp3.txt | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)
```

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ cat Exp3.txt
Hello
Let's compare
Lets go...
```







16. To get the details about the differences we will use the command \$ git diff main

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)

$ git diff main
diff --git a/Exp3.txt b/Exp3.txt
index 4ed5d28..3475e09 100644
--- a/Exp3.txt
+++ b/Exp3.txt
@@ -1,2 +1,3 @@
-Helloooooooo
+Hello
Let's compare
+Lets go...
```

17. At last we will checkout to the main branch and after that we will merge the files branch to the main branch and then we will get the no difference

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (branch1)
$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 3 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)
```

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)

$ git merge branch1
Updating c0028ce..5f675fe
Fast-forward
Exp3.txt | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

ADMIN@LAPTOP-RFULERMP MINGW64 ~/Exp3 (main)
\$ git diff branch1







**4. Result:** In this experiment, we have created pull requests and explored with the help of Git Bash and GitHub. We initiated the creation of directory, branches, added specific files to it, added and committed it also pushed it to the GitHub, there we have compared it and subsequentially merged it with the main branch.

## **Learning outcomes (What I have learnt):**

- 1. Understanding Git Workflow
- 2. Understanding Collaborative Workflow
- 3. Version Control Proficiency
- 4. Committing changes
- **5.** Working with staging area.

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

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

