Experiment -2.3

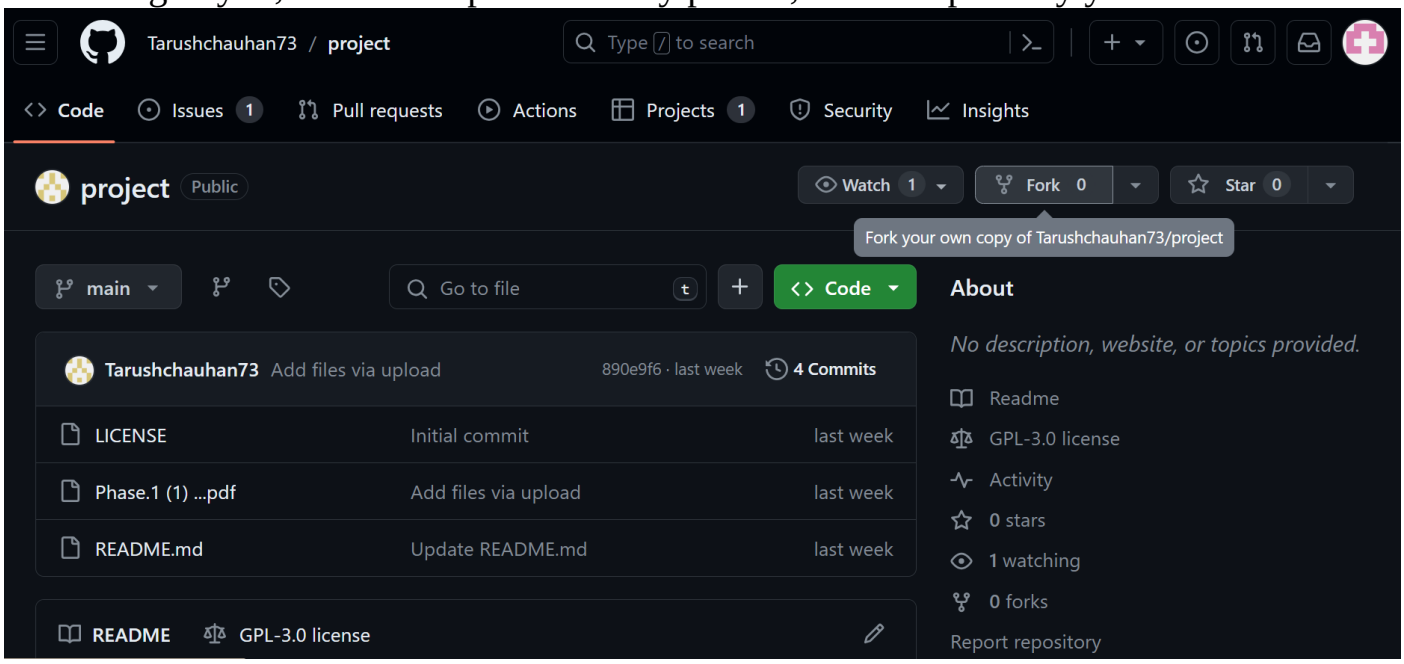
Student Name: Sakshi
UID: 22BDO10064
Branch: AIT-CSE(DevOps)
Section/Group: 22BCD-1/B
Semester: 4th
Date of Performance: 01/03/2024
Subject Name: Git and Hub
Subject Code: 22CSH-293

1. **Aim/Overview of the practical:** Creation of forks on GitHub.

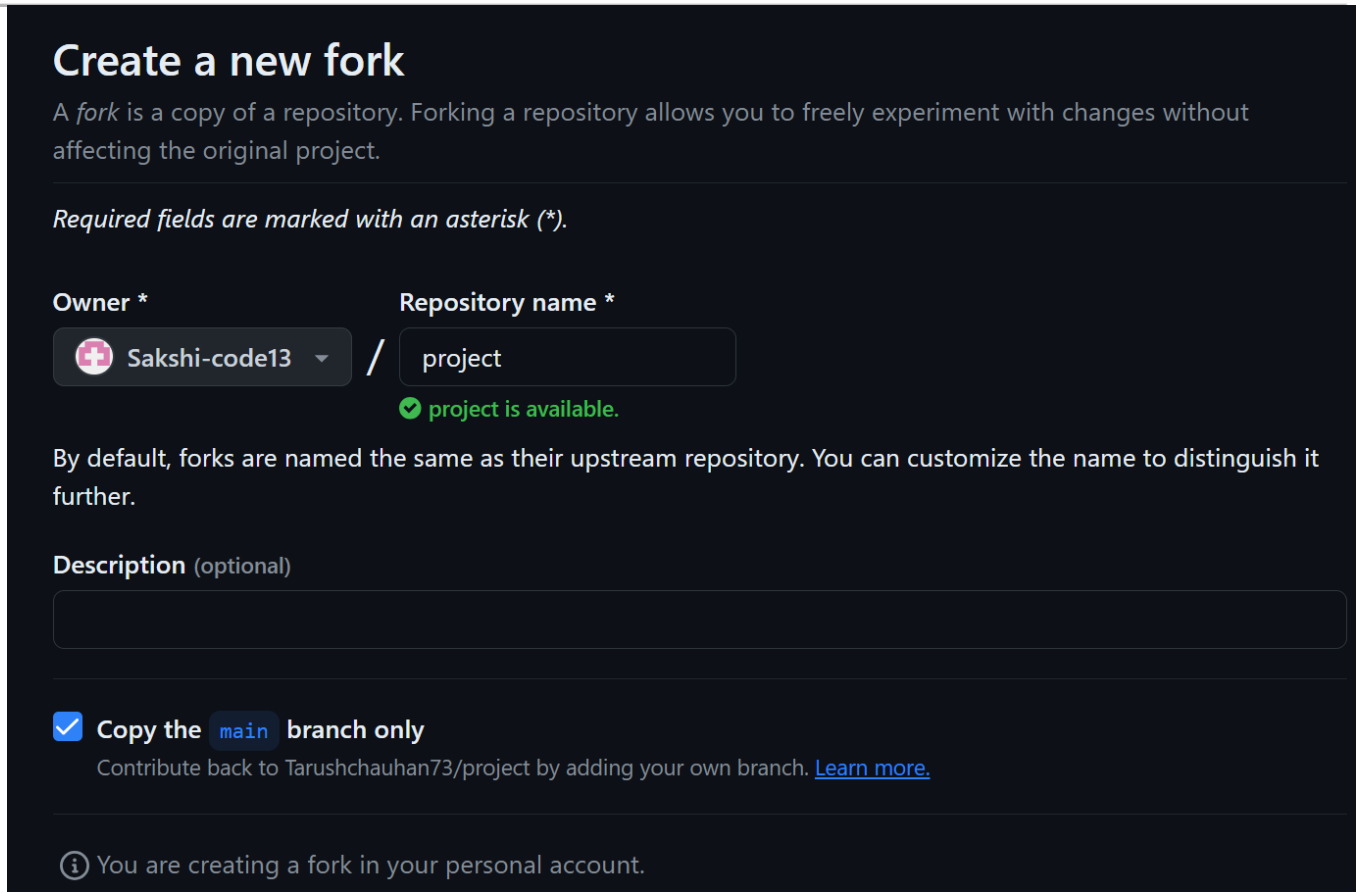
2. **Software Used:** Git Bash, GitHub.

3. **Steps for experiment/practical:**

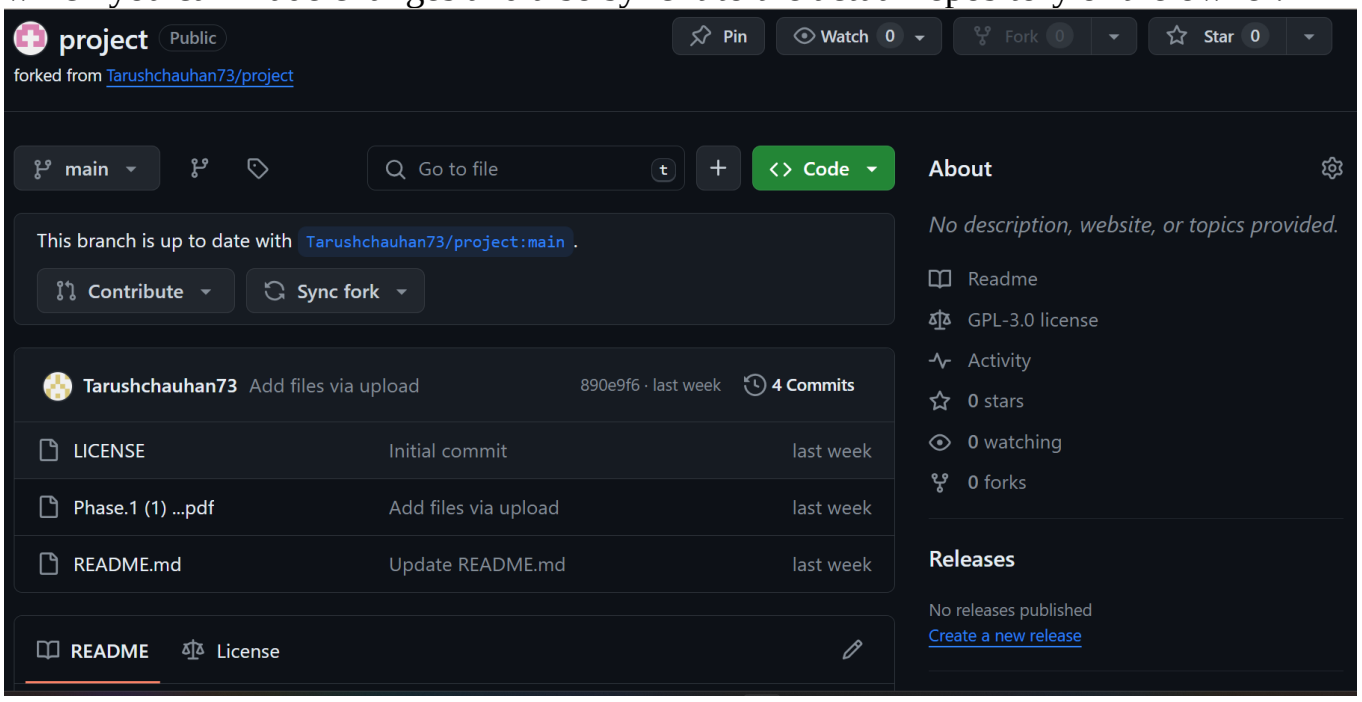
- According to you, choose the profile of any person, whose repository you want to fork.



- Click on the fork.
- Now, there'll be options available to provide your own repository as you wanted to have, also you can add some descriptions if you want.



- After, creating the fork, all the contents of the main branch will be visible to you, on which you can made changes and also sync it to the actual repository of the owner.



- Now, clone the repository onto your local machine, by using the command **$ git clone "url/username/repo_name.git"**

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~ (main)
$ git clone "https://github.com/Sakshi-code13/project.git"
Cloning into 'project'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 11 (delta 1), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (11/11), 145.29 KiB | 1.34 MiB/s, done.
Resolving deltas: 100% (1/1), done.
```

- Now, create a file in the repository using the command **$ vi file_name.txt**, enter the details or the content into the file, also use the command **$ cat file_name.txt**, to see the contents which we have entered into the file.

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~ (main)
$ cd project

ADMIN@LAPTOP-RFULERMP MINGW64 ~/project (main)
$ vi Phase2.txt

ADMIN@LAPTOP-RFULERMP MINGW64 ~/project (main)
$ cat Phase2.txt
Phase 2 is done and now moving towards to the Phase 3, and its evaluation.
```

- Now, add the file into the staging area, by using the command **$ git add file_name.txt**

```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/project (main)
$ git add Phase2.txt
warning: in the working copy of 'Phase2.txt', LF will be replaced by CRLF the
xt time Git touches it
```

- After that, commit the changes with the commit message, using the command **$ git commit -m "message you want to display"**

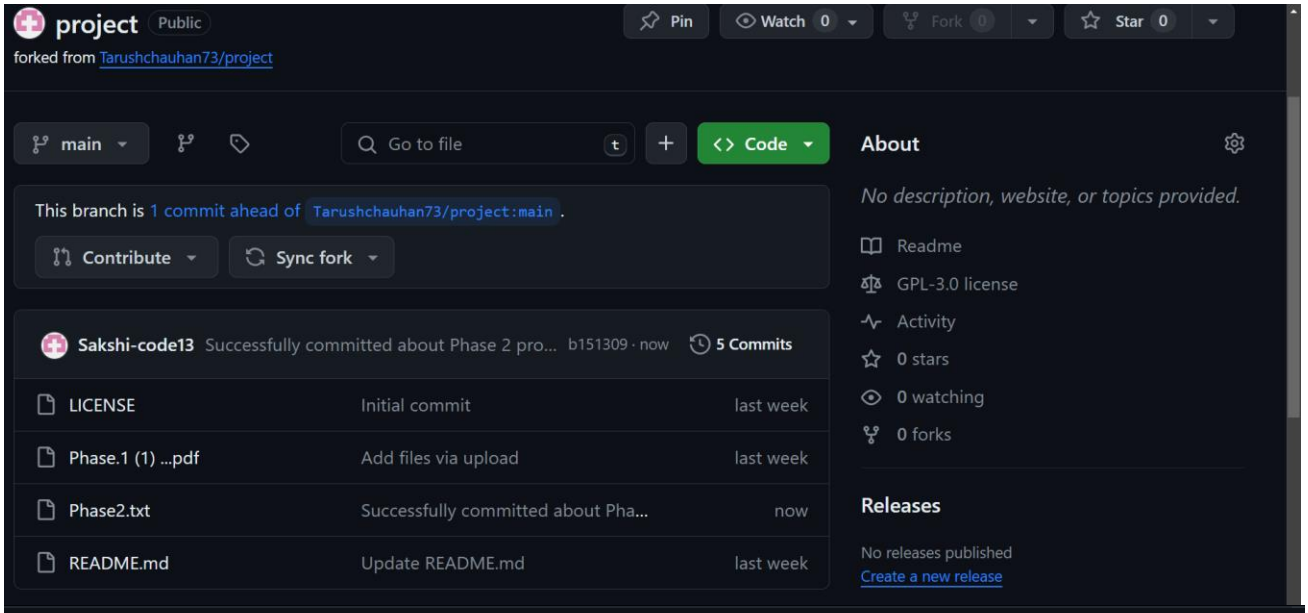
```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/project (main)
$ git commit -m "Successfully committed about Phase 2 progress"
[main b151309] Successfully committed about Phase 2 progress
 1 file changed, 1 insertion(+)
 create mode 100644 Phase2.txt
```

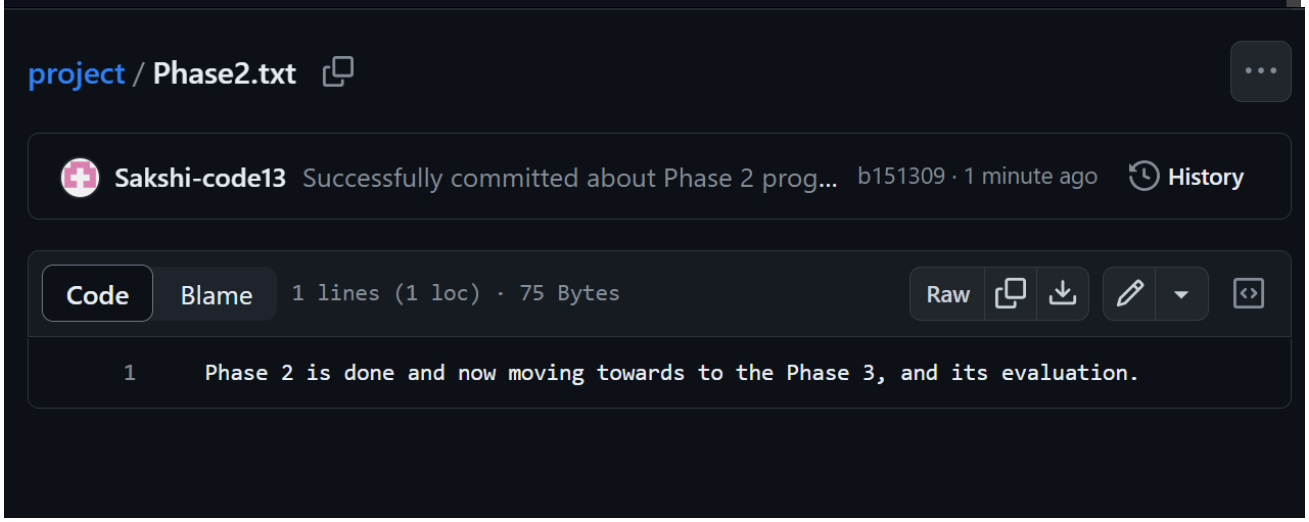
- And now, push the changes to the remote repository by using the command **$ git push origin main**

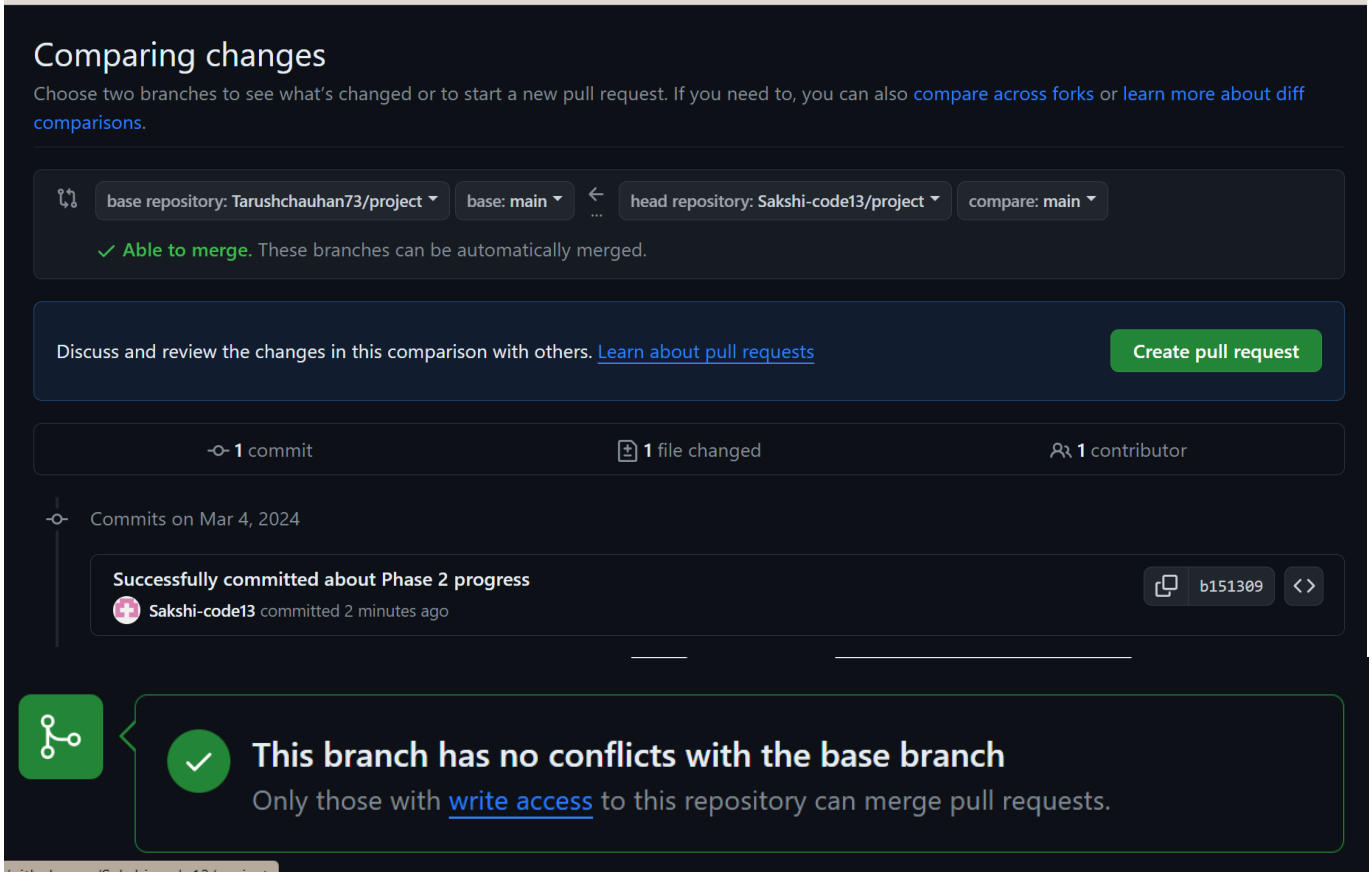
```
ADMIN@LAPTOP-RFULERMP MINGW64 ~/project (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 362 bytes | 362.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sakshi-code13/project.git
   890e9f6..b151309  main -> main
```

- After that, you can see on the remote repository regarding your pushed file, also the content is visible to you.
  You can also compare the changes and open a pull request but you can't merge it as only

those can merge pull requests who have write access.







4. **Result:** In this experiment, we have forked a repository of any user to our GitHub account, and have performed some changes into it, which can be seen on our side of the repository.

Learning Outcomes (What I have learnt):

1. How to search user on GitHub.
2. How to fork any repository.
3. How to create any fork repository.
4. How to add files into the repository, using Git Bash.
5. Two-stage commit.

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.			