

## Experiment -2.3

**Student Name:** Sakshi

**Branch:** AIT-CSE(DevOps)

**Semester:** 4th

**Subject Name:** Git and Hub

**UID:** 22BDO10064

**Section/Group:** 22BCD-1/B

**Date of Performance:** 01/03/2024

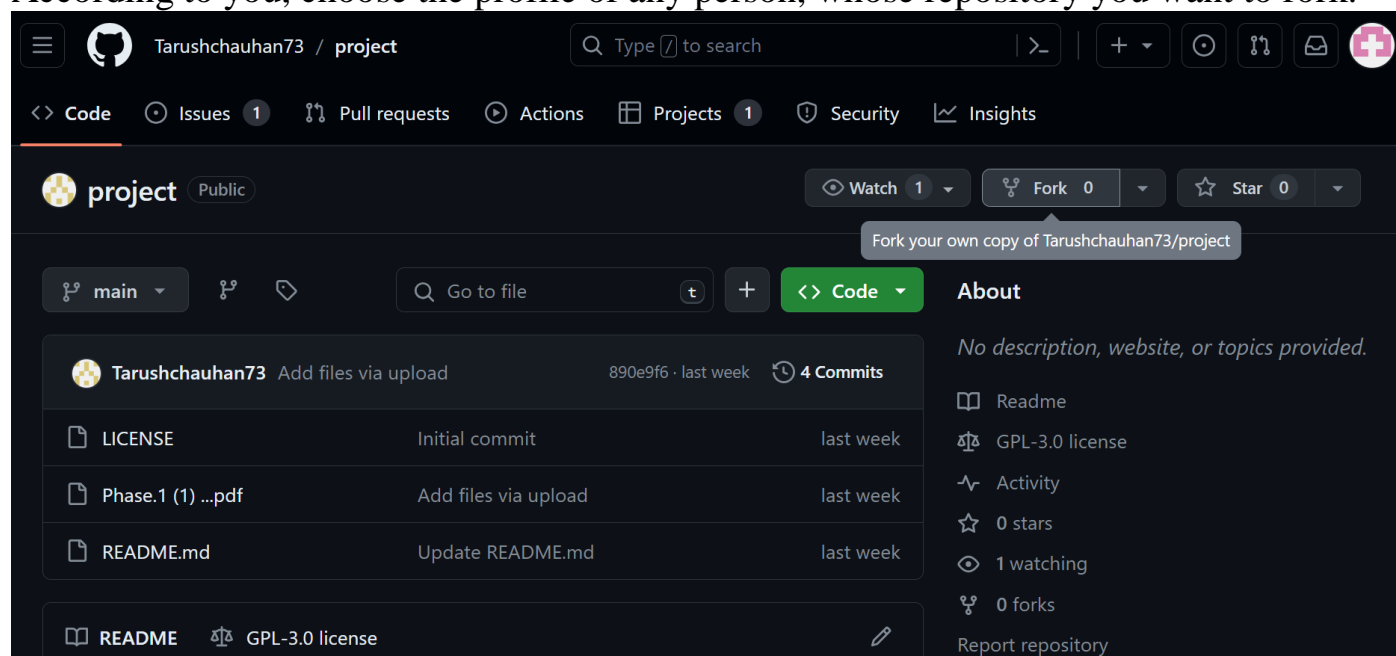
**Subject Code:** 22CSH-293

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.

## Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

Required fields are marked with an asterisk (\*).

Owner \*



Sakshi-code13

Repository name \*



project

✔ project is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)



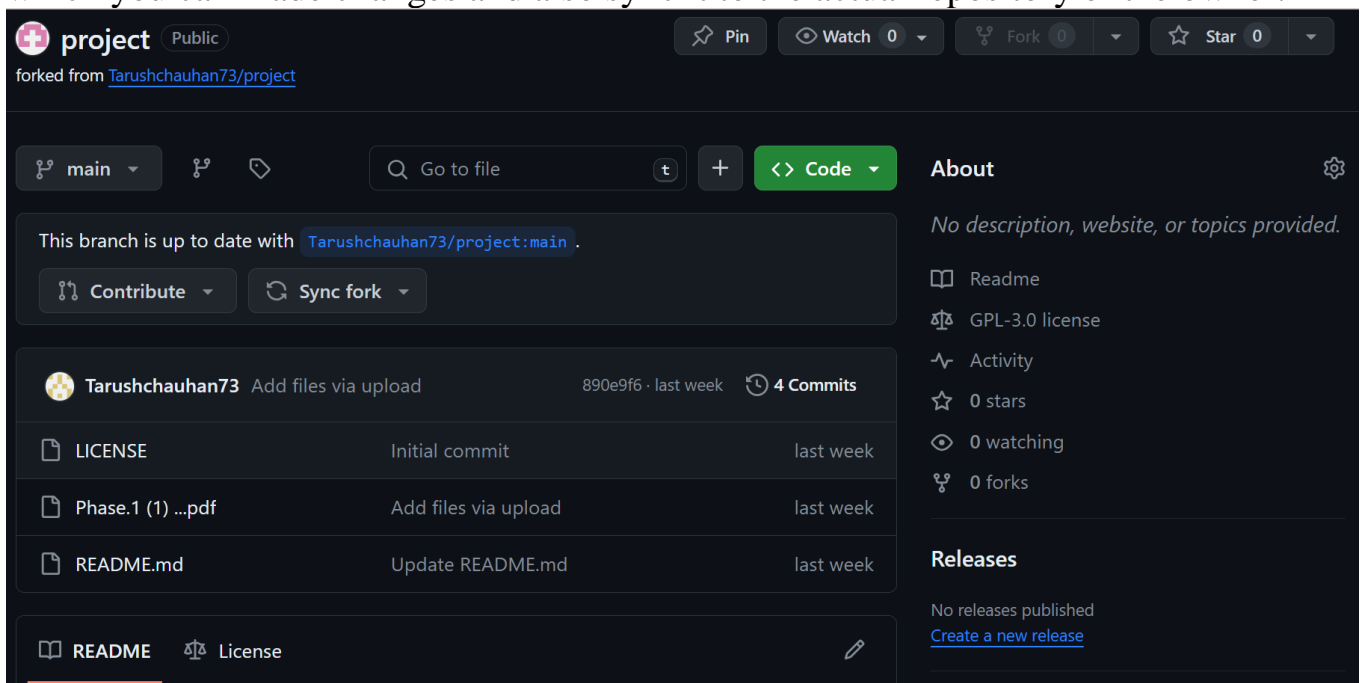
Copy the **main** branch only

Contribute back to Tarushchauhan73/project by adding your own branch. [Learn more.](#)



You are creating a fork in your personal account.

- 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.



The screenshot shows a GitHub repository page for a user named 'project' (Public). It is a fork of 'Tarushchauhan73/project'. The page displays the repository's main branch, 'main', and shows that it is up to date with the upstream repository. The repository contains three files: 'LICENSE', 'Phase.1 (1) ...pdf', and 'README.md'. The 'README' file is highlighted. The page also shows the repository's activity, including 4 commits by Tarushchauhan73. The right sidebar shows the repository's metadata, including 0 stars, 0 watching, and 0 forks. The 'About' section indicates that no description, website, or topics are provided.

- Now, clone the repository onto your local machine, by using the command **\$ git clone “url/username/repo\_name.git”**

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

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

ADMIN@LAPTOP-RFULERP 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-RFULERP 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-RFULERP 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
```

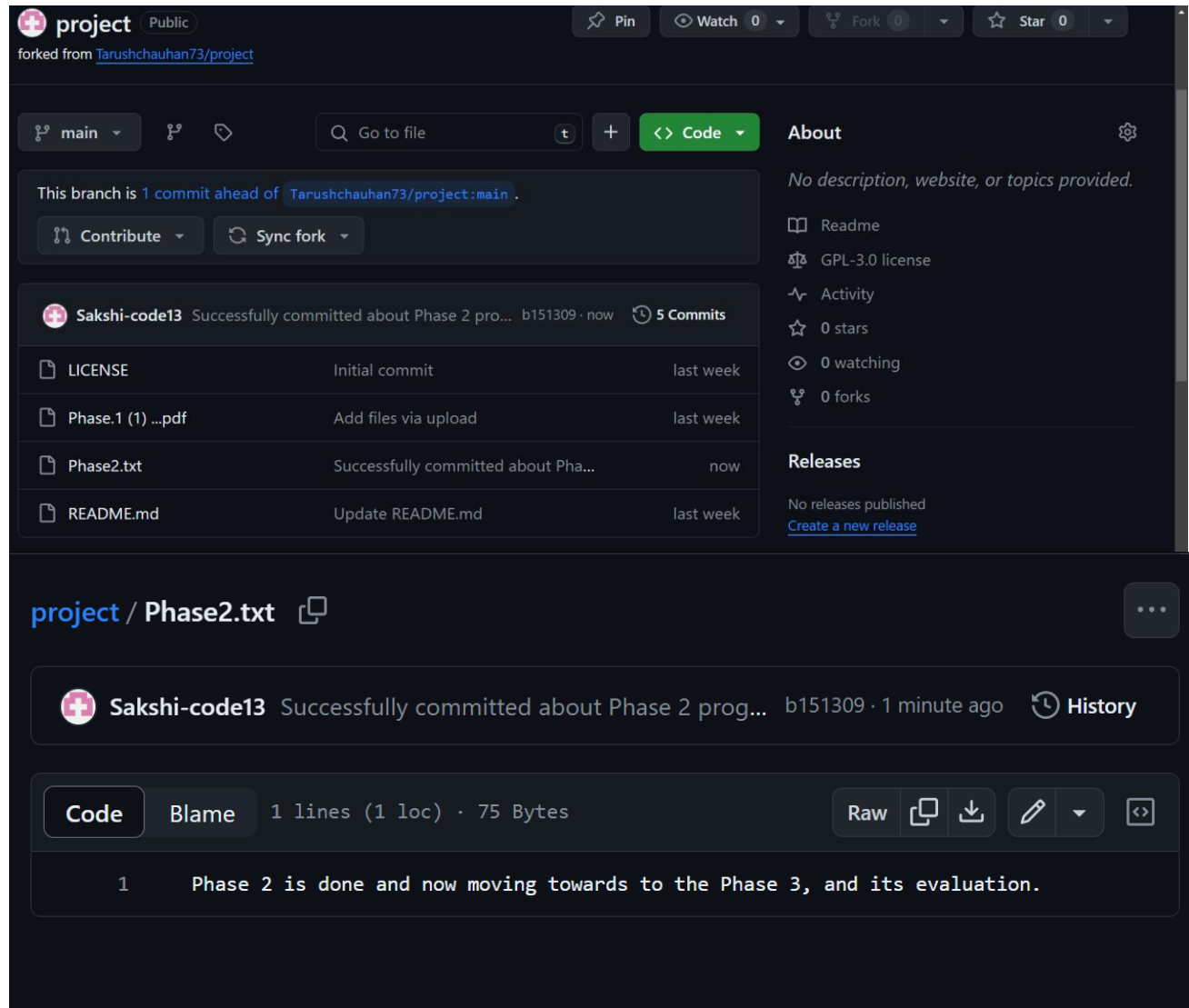
- And now, push the changes to the remote repository by using the command **\$ git push origin main**

```
ADMIN@LAPTOP-RFULERP 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.



The screenshot shows a GitHub repository interface for a project named "project". The repository is public and forked from "Tarushchauhan73/project". The main branch is "main". The repository has 0 watches, 0 forks, and 0 stars. The commit history shows a commit by "Sakshi-code13" titled "Successfully committed about Phase 2 pro..." with commit hash "b151309" and 5 commits. The commit message is "Phase 2 is done and now moving towards to the Phase 3, and its evaluation." The commit is dated "1 minute ago". The repository has a README file, a LICENSE file, and a Phase2.txt file. The commit history shows a commit by "Sakshi-code13" titled "Successfully committed about Phase 2 pro..." with commit hash "b151309" and 5 commits. The commit message is "Phase 2 is done and now moving towards to the Phase 3, and its evaluation." The commit is dated "1 minute ago". The repository has a README file, a LICENSE file, and a Phase2.txt file.

project Public

forked from Tarushchauhan73/project

main

Go to file

Code

About

No description, website, or topics provided.

Readme

GPL-3.0 license

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

project / Phase2.txt

Sakshi-code13 Successfully committed about Phase 2 prog... b151309 · 1 minute ago History

Code Blame 1 lines (1 loc) · 75 Bytes Raw Copy Download Edit

```
1 Phase 2 is done and now moving towards to the Phase 3, and its evaluation.
```

### Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

base repository: Tarushchauhan73/project
base: main
head repository: Sakshi-code13/project
compare: main

✓ **Able to merge.** These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

**Create pull request**

1 commit
1 file changed
1 contributor

Commits on Mar 4, 2024

Successfully committed about Phase 2 progress

Sakshi-code13 committed 2 minutes ago

b151309

**This branch has no conflicts with the base branch**

Only those with [write access](#) to this repository can merge pull requests.

**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.			