

## Experiment -2.3

**Student Name: Km Ayushi**

**Branch: CSE(DevOps)**

**Semester: 4th**

**Subject Name- Git and GitHub**

**UID:22BDO10055**

**Section/Group-22BCD-1(B)**

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

**2. Software used:** Git bash and GitHub

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


1. First open GitHub, and fork any repository name agile.

### 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 \*

 Ayushi121104

Repository name \*

Agile

Agile is available.

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

Description (optional)

only copying the main branch only

☒ Copy the main branch only

Contribute back to Vishwachi03/Agile by adding your own branch. [Learn more.](#)

 You are creating a fork in your personal account.

2. Now use git in it and do remote at origin url Clone the repository which we have fork on a local.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git init
Initialized empty Git repository in C:/Users/ayush/abcd/.git/

ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (master)
$ git branch -M main

ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git remote add origin https://github.com/Ayushi121104/Agile.git

ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git remote add origin https://github.com/Ayushi121104/Agile.git
error: remote origin already exists.

ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ vi abc

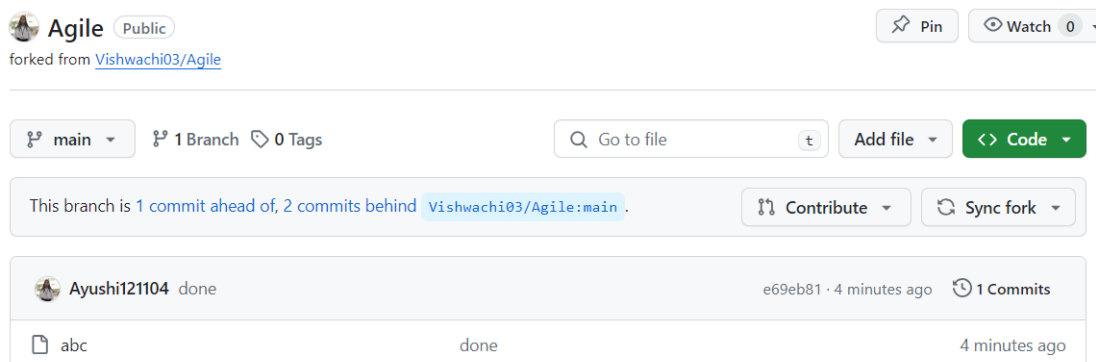
ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git add abc
warning: in the working copy of 'abc', LF will be replaced
by CRLF the next time Git touches it

ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git commit -m"done"
[main (root-commit) e69eb81] done
1 file changed, 15 insertions(+)
create mode 100644 abc
```

- Now make a new file name abc add some code into that file add the file and then commit it in the staging area.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/abcd (main)
$ git push --force origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 370 bytes | 370.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Ayushi121104/Agile.git
+ fd366aa...e69eb81 main -> main (forced update)
```

- Now push the file to the remote repository .



The screenshot shows a GitHub repository named 'Agile' (Public) forked from 'Vishwachi03/Agile'. The repository has 1 branch (main) and 0 tags. The main branch is 1 commit ahead of and 2 commits behind 'Vishwachi03/Agile:main'. The commit history shows a single commit by Ayushi121104 with the message 'done' (commit hash e69eb81) made 4 minutes ago. The commit details show a file named 'abc' was added.

## 9. Result/Output/Writing Summary:

In this experiment, learnt about forking any repository and adding file into it and pushing it from the local to the remote repository.

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

1. Learn about repositories without cloning.
2. Learn about Editing a file locally and repository.
3. Learn about How to push from local to remote and vice versa.
4. Learn how to check the differences in the local machine.
5. Learn how to match the branch with the main branch.

**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.			