

Experiment -2.2

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Branch: CSE (Devops)
Semester: 4th
Subject Name: Git and Git Hub

UID: 22BDO10052
Section/Group: 22BCD-1\A
Date of Performance: 21/02/24
Subject Code: 22CSH-293

1. Aim/Overview of the practical:

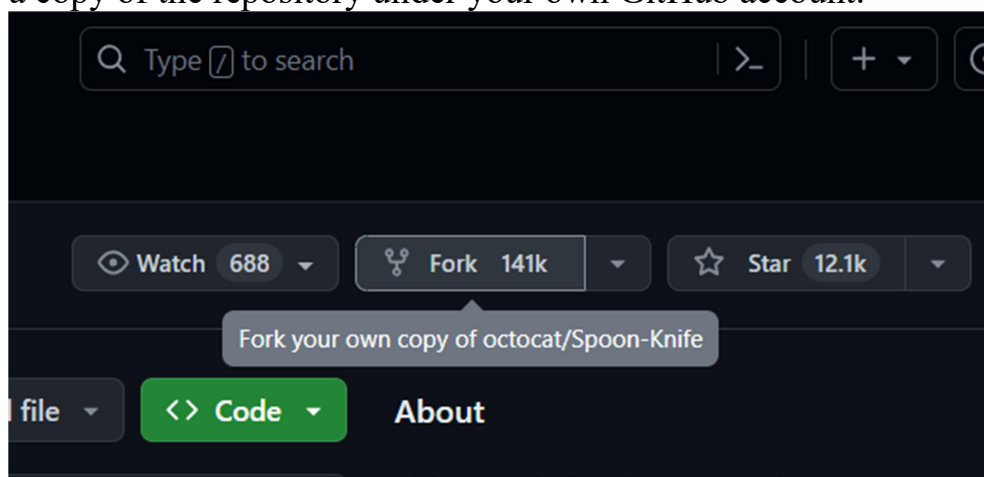
To Create of forks on GitHub

2. Software Used:

Git Bash, Git-Hub.

3. Steps for experiment/practical:

1. Choose the profile of any person whose repository you want to fork on GitHub.
2. Click on the "Fork" button on the top-right corner of the repository page. This will create a copy of the repository under your own GitHub account.



3. After forking, you'll have the option to provide a name for your forked repository and add a description 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. [View existing forks.](#)

Required fields are marked with an asterisk ().*

Owner *



Sushantjha1236

Repository name *



Spoon-Knife

✔ Spoon-Knife is available.

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

Description (optional)

This repo is for demonstration purposes only.



Copy the **main** branch only

Contribute back to octocat/Spoon-Knife by adding your own branch. [Learn more.](#)



You are creating a fork in your personal account.

Create fork

- Once the fork is created, you'll have access to all the contents of the main branch of the repository. You can make changes to this branch and sync it with the original repository owner's repository if needed.
- Clone the forked repository onto your local machine using the command:
git clone "url/username/repo_name.git"

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub (main)
$ git clone https://github.com/Sushantjha1236/Spoon-Knife.git
Cloning into 'Spoon-Knife'...
remote: Enumerating objects: 10, done.
remote: Total 10 (delta 0), reused 0 (delta 0), pack-reused 10
Receiving objects: 100% (10/10), done.
Resolving deltas: 100% (1/1), done.
```

- Create a branch "Feature1", to add the changes.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (main)
$ git checkout -b Feature1
Switched to a new branch 'Feature1'
```

7. Create a new file or edit an existing file on the branch.
8. Enter the details or content into the file. You can also view the contents of the file.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (main)
$ git checkout -b Feature1
Switched to a new branch 'Feature1'

ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (Feature1)
$ ls
README.md index.html styles.css

ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (Feature1)
$ vi README.md
```

9. Add the created file to the staging area using the command:
git add file_name.txt.
10. Commit the changes with a meaningful commit message using the command:
git commit -m "message you want to display"

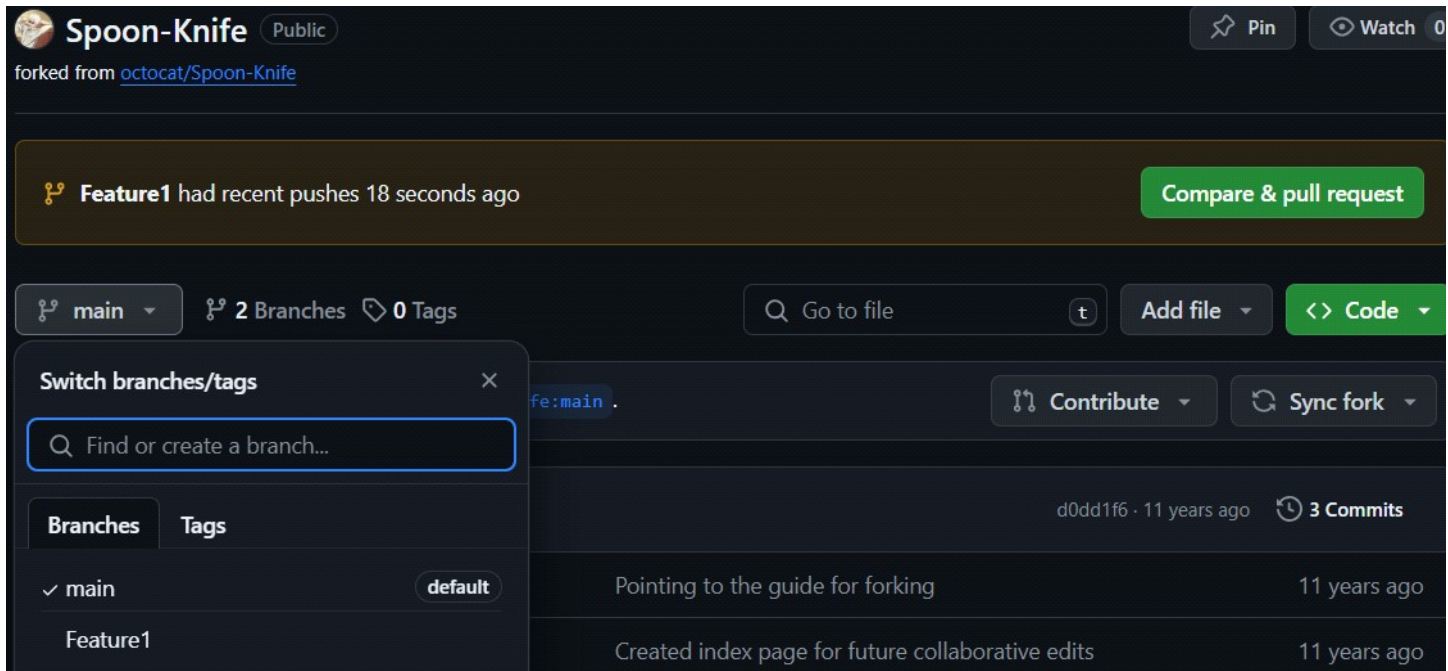
```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (Feature1)
$ git add README.md

ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (Feature1)
$ git commit -m "Committing the changes on README.md file"
[Feature1 8f83761] Committing the changes on README.md file
1 file changed, 1 insertion(+), 1 deletion(-)
```

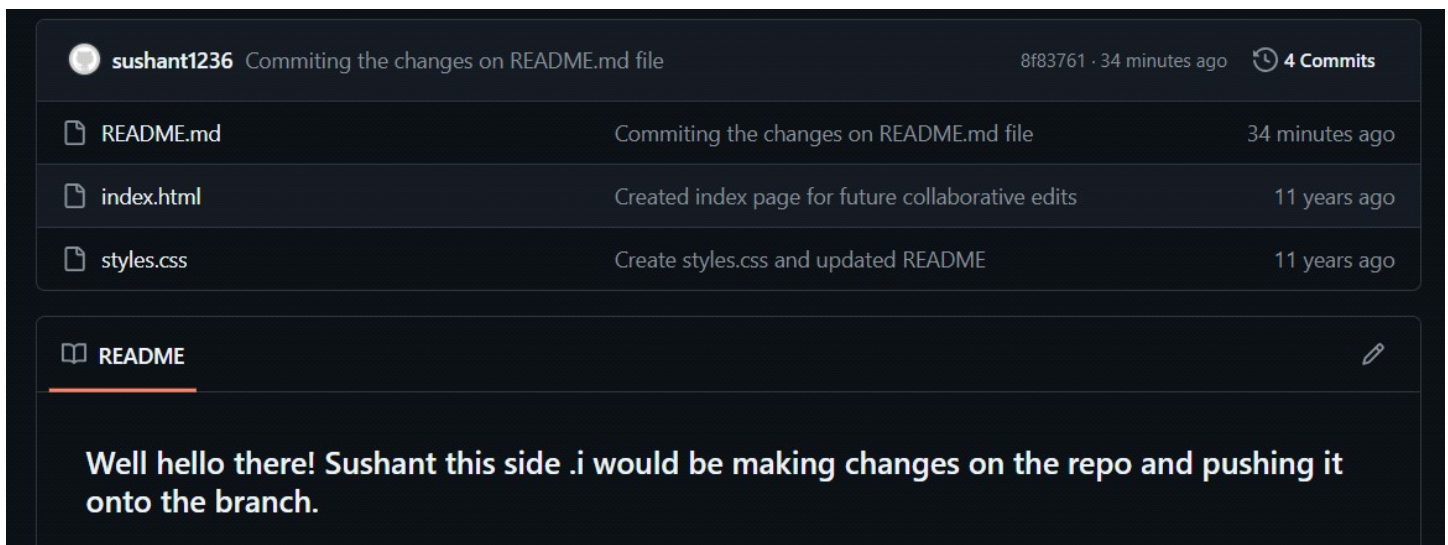
11. Push the changes to the remote repository (your fork) using the command:
git push origin Feature1.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHub/Spoon-Knife (Feature1)
$ git push origin Feature1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 447 bytes | 447.00 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.
remote:
remote: Create a pull request for 'Feature1' on GitHub by visiting:
remote:   https://github.com/Sushantjha1236/Spoon-Knife/pull/new/Feature1
remote:
To https://github.com/Sushantjha1236/Spoon-Knife.git
 * [new branch]      Feature1 -> Feature1
```

12. After pushing, you can see the changes reflected on your forked repository on GitHub. You can also compare the changes and open a pull request, but keep in mind that you won't be able to merge it as only users with write access can merge pull requests.



The screenshot shows the GitHub interface for a repository named 'Spoon-Knife', which is a fork of 'octocat/Spoon-Knife'. A notification bar at the top indicates that 'Feature1' had recent pushes 18 seconds ago, with a 'Compare & pull request' button. Below this, the repository has 2 branches (main, Feature1) and 0 tags. A 'Switch branches/tags' dropdown menu is open, showing the 'main' branch as the current selection and 'Feature1' as an available option. The commit history shows three commits: 'Pointing to the guide for forking' (11 years ago), 'Created index page for future collaborative edits' (11 years ago), and 'Committing the changes on README.md file' (34 minutes ago).



The screenshot displays the commit history for the 'Spoon-Knife' repository. It shows a list of commits with their respective files and timestamps. The most recent commit is by 'sushant1236' and is titled 'Committing the changes on README.md file', dated 34 minutes ago. The commit history includes the following files and descriptions:

File	Description	Time
README.md	Committing the changes on README.md file	34 minutes ago
index.html	Created index page for future collaborative edits	11 years ago
styles.css	Create styles.css and updated README	11 years ago

Below the commit history, the 'README' file is selected, showing a message: 'Well hello there! Sushant this side .i would be making changes on the repo and pushing it onto the branch.'

Learning outcomes (What I have learnt):

1. Understanding Git Workflow
2. Learnt about Fork.
3. Version Control Proficiency.
4. Committing changes.
5. Learnt about how to pull request and push in git bash.

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.			