Experiment -2.2

Student Name: Sushant jha   **UID: 22BDO10052**

Branch: CSE (Devops)   **Section/Group: 22BCD-1\A**

Semester: 4th   **Date of Performance: 21/02/24**

Subject Name: Git and Git Hub   **Subject Code: 22CSH-293**

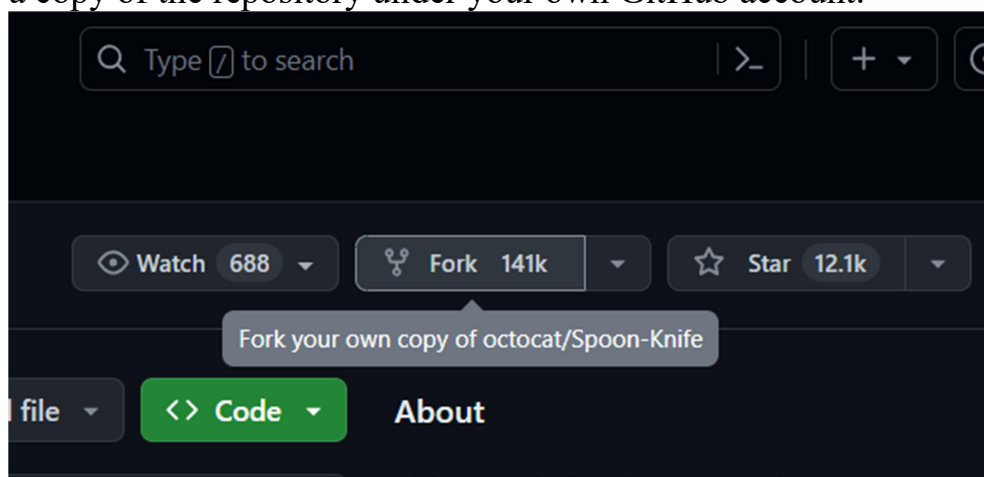1. **Aim/Overview of the practical:**
   To Create of forks on GitHub

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.

DEPARTMENT OF
ACADEMIC AFFAIRS
Discover. Learn. Empower.

NAAC
GRADE A+
ACCREDITED UNIVERSITY

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

4. 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.

5. 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.
```

6. 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"
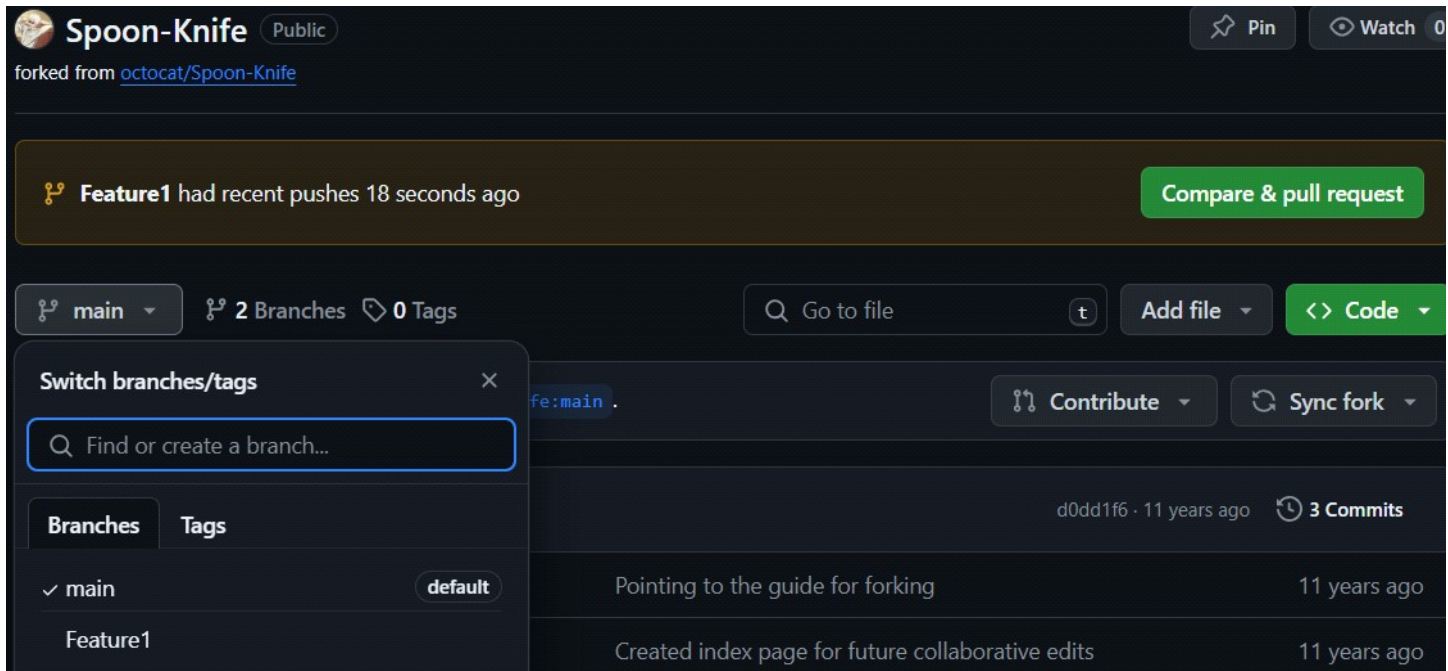
```
ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHUb/Spoon-Knife (Feature1)
$ git add README.md

ASUS TUF@sushant MINGW64 ~/Desktop/gitandgitHUb/Spoon-Knife (Feature1)
$ git commit -m "Commiting the changes on README.md file"
[Feature1 8f83761] Commiting the changes on README.md file
 1 file changed, 1 insertion(+), 1 deletion(-)
```
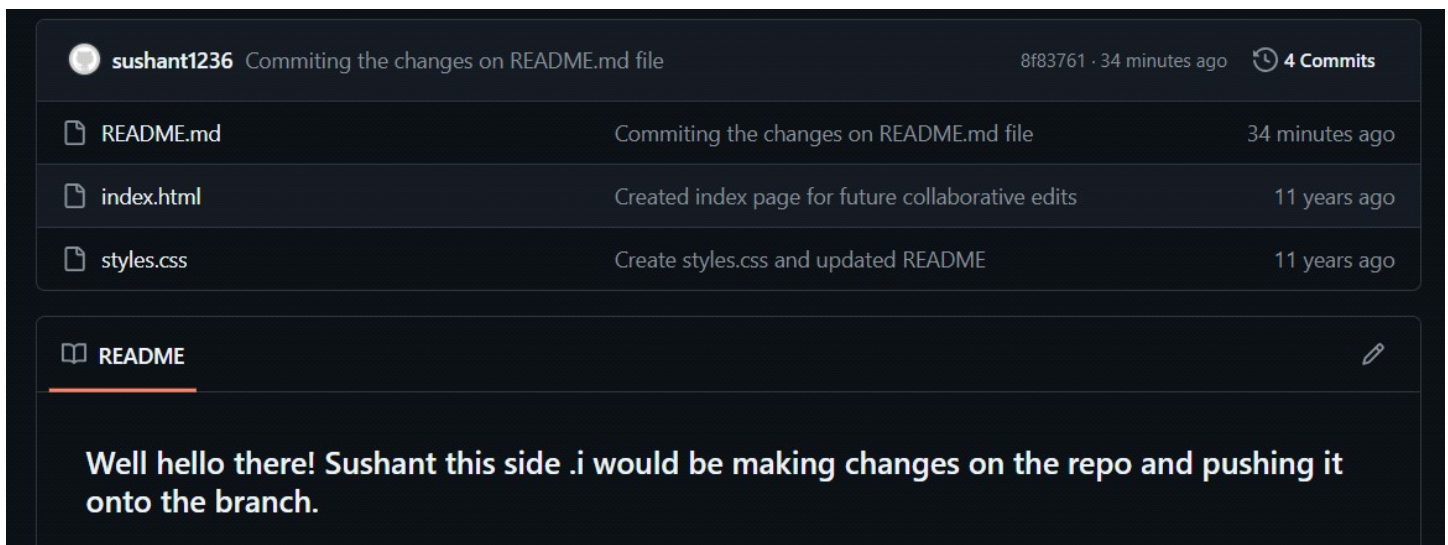
11. Push the changes to the remote repository (your fork) using the command: git push origin Feature1.

```
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.

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.			