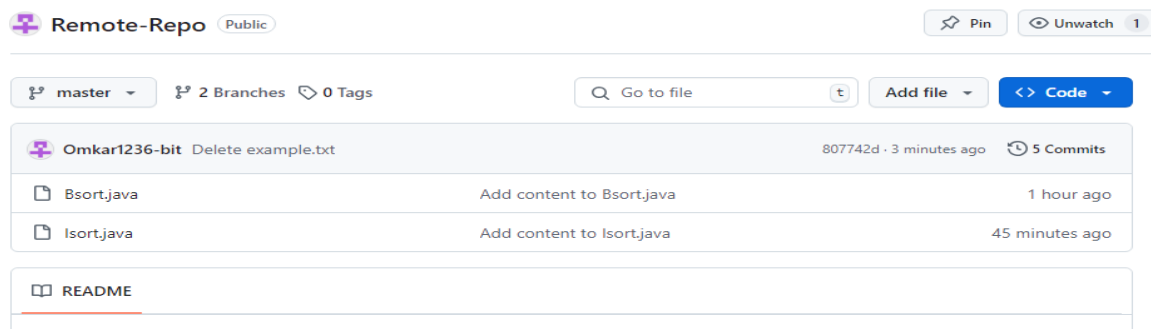


Experiment No. 2

Title : Implement GitHub Operations using Git.

Step 1: Cloning a Repository

Find a Repository to Clone & Copy the Repository URL:



Navigate to the Directory :

Change to the directory where you want to clone the repository :

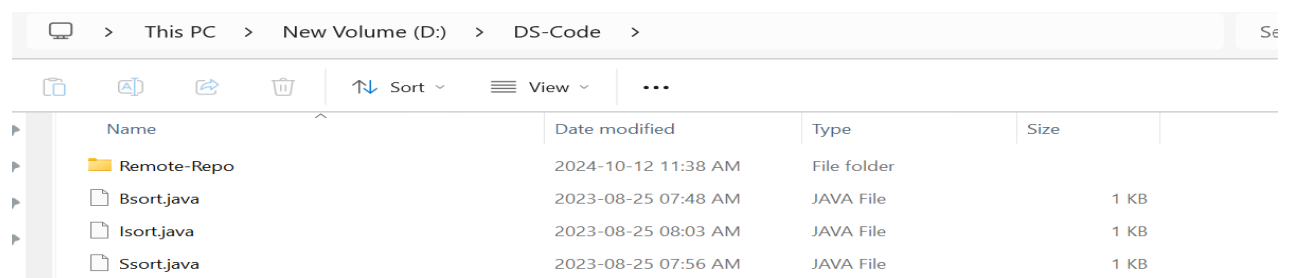
```
OMKAR@LAPTOP-UU9CTA90 MINGW64 ~  
$ cd d:  
  
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d  
$ cd DS-Code
```

Run the Clone Command :

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code (master)  
$ git clone https://github.com/Omkar1236-bit/Remote-Repo.git  
Cloning into 'Remote-Repo'...  
remote: Enumerating objects: 17, done.  
remote: Counting objects: 100% (17/17), done.  
remote: Compressing objects: 100% (12/12), done.  
remote: Total 17 (delta 4), reused 8 (delta 1), pack-reused 0 (from 0)  
Receiving objects: 100% (17/17), 4.64 KiB | 4.64 MiB/s, done.  
Resolving deltas: 100% (4/4), done.
```

Step 2: Making Changes and Creating a Branch

Navigate into the Cloned Repository:



```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code (master)  
$ cd Remote-Repo
```

Create a New Text File:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ nano example.txt
```

Check the Status of the Repository:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example.txt

nothing added to commit but untracked files present (use "git add" to track)
```

Stage the Changes for Commit:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git add example.txt
warning: in the working copy of 'example.txt', LF will be replaced by CRLF the n
ext time Git touches it
```

Commit the Changes:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git commit -m "add content to example.txt"
[master 18b044a] add content to example.txt
1 file changed, 1 insertion(+)
create mode 100644 example.txt
```

Create a New Branch:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git branch feature
```

Switch to the Feature Branch:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git checkout feature
Switched to branch 'feature'
```

Step 3) Pushing Changes to GitHub :

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (feature)
$ git remote add origin https://github.com/Omkar1236-bit/Remote-Repo.git
error: remote origin already exists.
```

This step is usually unnecessary if the repository was cloned, as the origin is already set.

Push the Feature Branch:

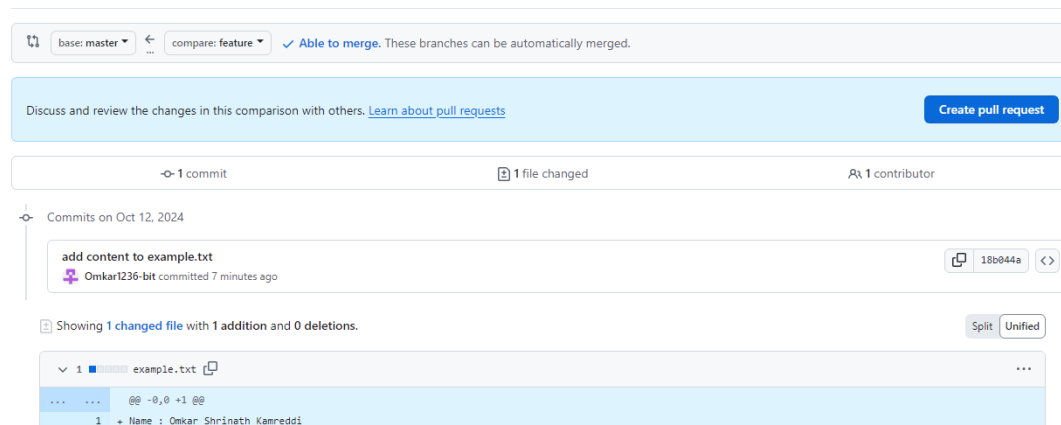
```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (feature)
$ git push origin feature
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 349 bytes | 349.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/Omkar1236-bit/Remote-Repo/pull/new/feature
remote:
To https://github.com/Omkar1236-bit/Remote-Repo.git
 * [new branch]      feature -> feature
```

Step 4 : Collaborating through Pull Requests :

Create a Pull Request & Choose Base and Compare Branches :

Comparing changes

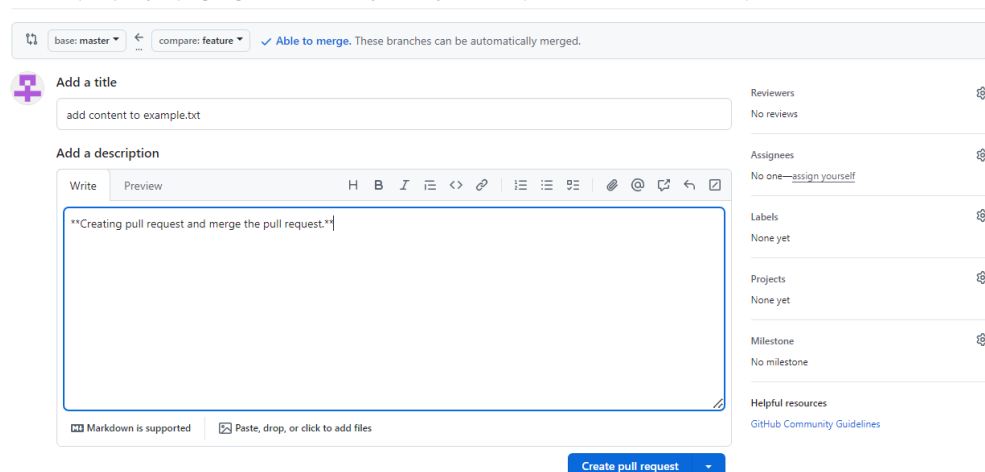
Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).



Create a Pull Request & Add Title and Description:

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).



Merge the Pull Request:

add content to example.txt #2

Open Omkar1236-bit wants to merge 1 commit into `master` from `feature`

Conversation 0 Commits 1 Checks 0 Files changed 1 +1 -0

Omkar1236-bit commented now Owner ...

Creating pull request and merge the pull request.

add content to example.txt 18b044a

Require approval from specific reviewers before merging Add rule ×
[Rulesets](#) ensure specific people approve pull requests before they're merged.

Continuous integration has not been set up
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Reviewers
No reviews
Still in progress? [Convert to draft](#)

Assignees
No one—[assign yourself](#)

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these [issues](#).

Successfully Merge the pull request :

add content to example.txt #2

Merged Omkar1236-bit merged 1 commit into `master` from `feature` now

Conversation 0 Commits 1 Checks 0 Files changed 1

Omkar1236-bit commented now Owner ...

Creating pull request and merge the pull request.

add content to example.txt 18b044a

Omkar1236-bit merged commit 5772ee5 into `master` now Revert

Pull request successfully merged and closed Delete branch
You're all set—the `feature` branch can be safely deleted.

Step 5) Syncing Changes :


Update Your Local Repository:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (feature)
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
```

Pull the Latest Changes:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/DS-Code/Remote-Repo (master)
$ git pull origin master
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 906 bytes | 302.00 KiB/s, done.
From https://github.com/Omkar1236-bit/Remote-Repo
* branch      master      -> FETCH_HEAD
   807742d..5772ee5 master  -> origin/master
Updating 18b044a..5772ee5
Fast-forward
```

This command updates your local main branch with any changes that were merged into the remote main branch.


 Remote-Repo Public Pin Unwatch 1




🔗 master 3 Branches 0 Tags

🔍 Go to file t

Add file

<> Code

 Omkar1236-bit Merge pull request #2 from Omkar1236-bit/feature 5772ee5 · 2 minutes ago 7 Commits

 Bsort.java	Add content to Bsort.java	1 hour ago
 Isort.java	Add content to Isort.java	1 hour ago
 example.txt	add content to example.txt	12 minutes ago