



Experiment-2.1

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Branch: CSE(DEVOPS) Section/Group: 22BCD-1/B

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Subject Name: Git and GitHub Subject Code: 22CSH-293

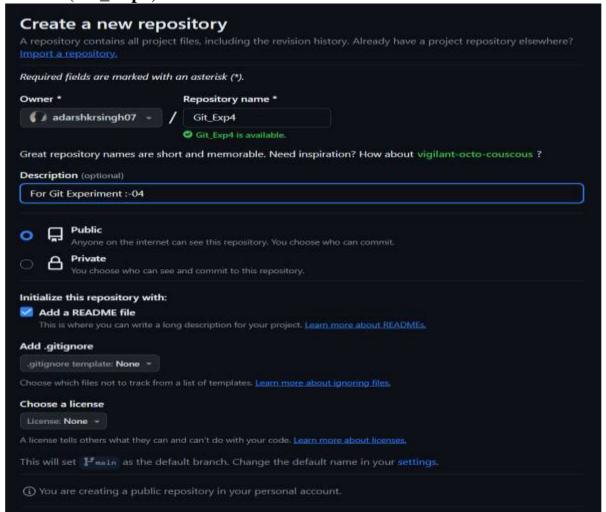
1. Aim/Overview of the practical: Editing a file and committing changes on GitHub.

2. Task to be done: Creating a file in your remote repository and pulling it to local repository and doing some changes into the file and again pushing it on the GitHub.

3. Software Used: Git Bash, GitHub.

4. Steps for Experiment: -

1) Goto your remote repository i.e. (Github.com) now create a new repository over there i.e. (**Git_Exp4**)

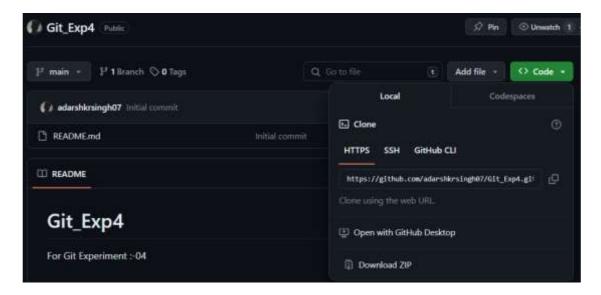








2) Now clone your remote repository on the local repository by copying the link from GitHub.



3) Now open git bash and clone your repository i.e. (git clone <link>).

```
adars@ASUS MINGW64 ~ (master)
$ git clone https://github.com/adarshkrsingh07/Git_Exp4.git
Cloning into 'Git_Exp4'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

4) Now go to your repository by (**cd** <repo_name>).

```
adars@ASUS MINGW64 ~ (master)
$ cd Git_Exp4
```

5) Now check for the other file if already present pr created (**ls**). If not then create a file in your current repository by (**vi** <file_name>).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ ls
README.md
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ vi Exp.txt
```







6) After creating a file now write something in it by (vi <file_name>)

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ cat Exp.txt
hello from git i.e.(local repository).
```

7) Now add and commit your file so that it can be tracked and pushed easily on GitHub, i.e.(git **add** . & git **commit** -m).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ git add Exp.txt
warning: in the working copy of 'Exp.txt', LF will be replaced by CRLF the next time Git to
uches it

adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ git commit -m "first commit for exp4"
[main f548ea3] first commit for exp4
1 file changed, 1 insertion(+)
create mode 100644 Exp.txt
```

8) Now check for status so that no file will be left for adding or committing, i.e.(git status).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

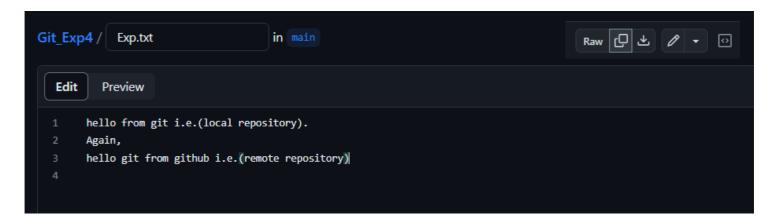
9) After committing the file now push it on the GitHub i.e. (git push origin main).







10) Now go to the GitHub and open the pushed file and make some changes over there and commit the changes successfully.



11) Now we use git pull to fetch the content from github to git i.e.(remote to local) by (**git pull** origin main).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 1002 bytes | 45.00 KiB/s, done.
From https://github.com/adarshkrsingh07/Git_Exp4
* branch main -> FETCH_HEAD
    f548ea3..a091508 main -> origin/main
Updating f548ea3..a091508
Fast-forward
Exp.txt | 2 ++
1 file changed, 2 insertions(+)
```

12) After pulling the content from remote to local repository now see the changes made over there by using (**cat** <file name>).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)
$ cat Exp.txt
hello from git i.e.(local repository).
Again,
hello git from github i.e.(remote repository)
```







13) Now we can run a git log commands to see the commits. (git log).

```
adars@ASUS MINGW64 ~/Git_Exp4 (main)

§ git log
commit a0915088ad033f57e8dd7b290de34c4a3097749f (HEAD -> main, origin/main, origin/HEAD)
Author: Adarsh Kumar Singh <123314058+adarshkrsingh07@users.noreply.github.com>
Date: Tue Feb 20 23:21:21 2024 +0530

Update Exp.txt

commit f548ea35a5ecdc105bc260b677f2f872b5f6ed30
Author: adarshkrsingh07 <adarshkrdixit@gmail.com>
Date: Tue Feb 20 11:19:12 2024 +0530

first commit for exp4

commit 40d785a119504697f19e5d346c47ac624857ce83
Author: Adarsh Kumar Singh <123314058+adarshkrsingh07@users.noreply.github.com>
Date: Tue Feb 20 23:14:01 2024 +0530

Initial commit
```

We have successfully created a file and merged in the Main Branch.

Learning outcomes (What I have learnt):

- **1.** Learnt about GitHub.
- **2.** Learnt about Git.
- 3. Learnt about various git commands that can be applied on Git Bash.
- **4.** Learnt about how to make changes in a file in git and how to push it on github.
- **5.** Learnt about how to pull request and push source code /files etc.

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.			

