**Experiment -2.1**

Install Git and creating repository.

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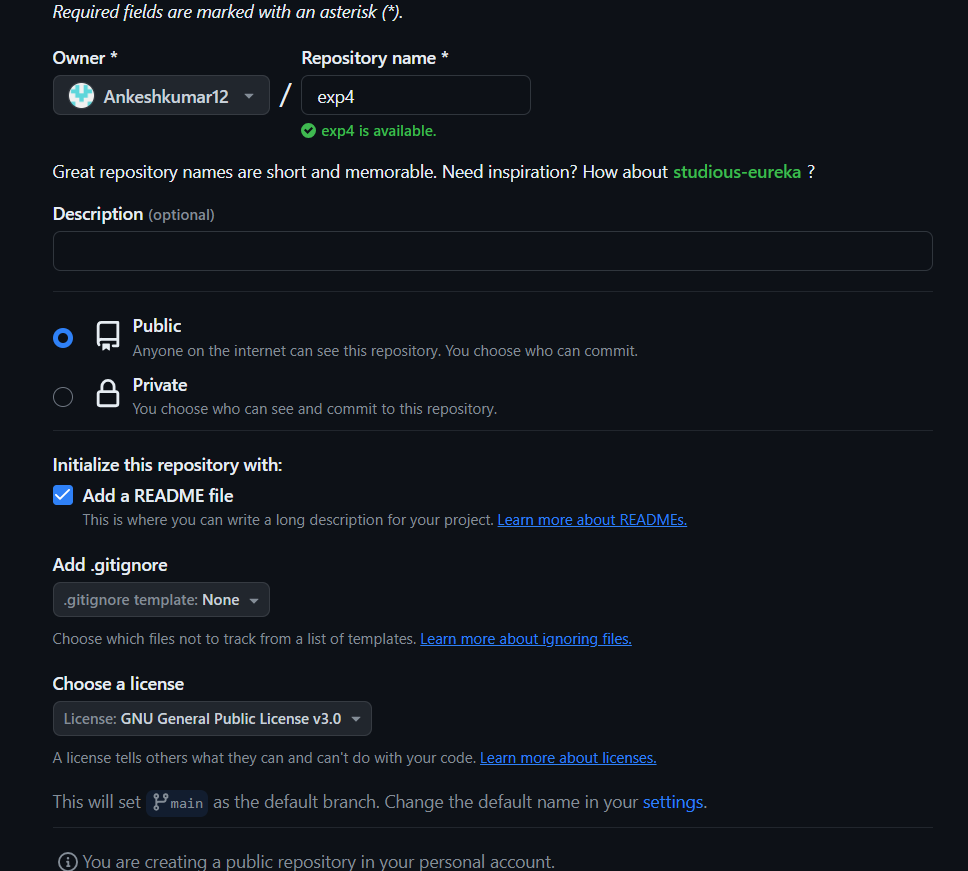
**Branch: CSE (DevOps) Section/Group**- **22BCD-1/A**

**Semester: 4th Date of Performance: 09/02/2024**

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

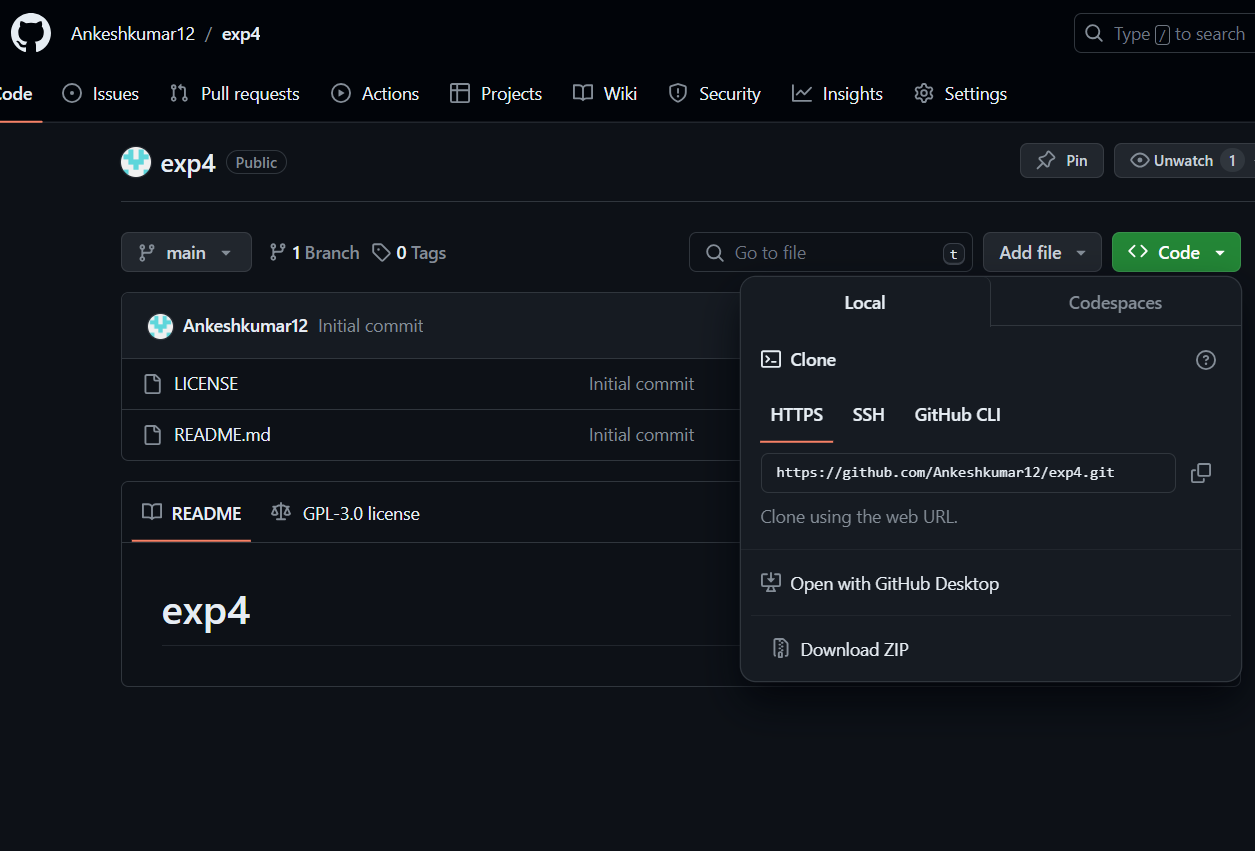
## Aim/Overview of the practical: Editing a File and committing changes on GitHub.

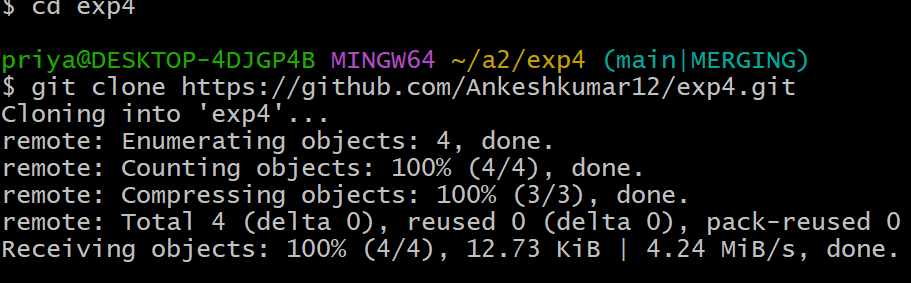
1. **Software Used:** GitHub and Git Bash.
2. **Steps for experiment/practical:**
3. Create a repository on GitHub named exp4 with ReadMe file, public and click create repository.

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1. Go to Git Bash and clone the repository to your local machine using:

*git clone <-link->*

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1. Go to exp4 repository using cd:

*cd directory\_name*

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1. Now, create a file fil1.c using vi editor and

*vi file\_name*

Press *I* key for inserting

Write:

*I am ankesh*

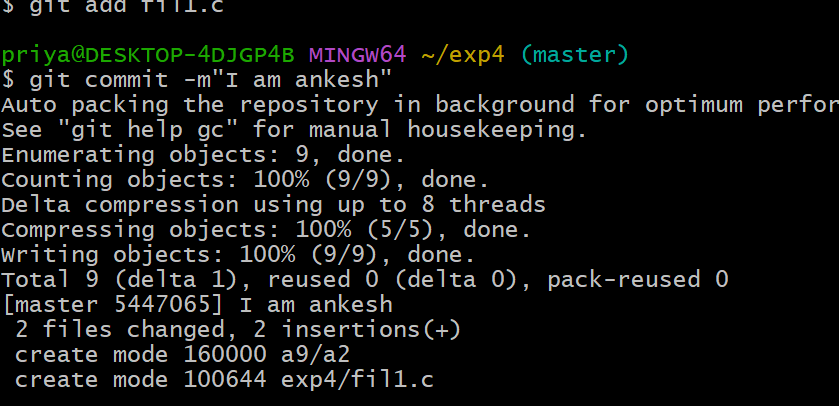
after writing press *esc* key to escape the insert mode and press *:wq* to save and quit.

1. Add and commit changes using:

*git add file\_name*

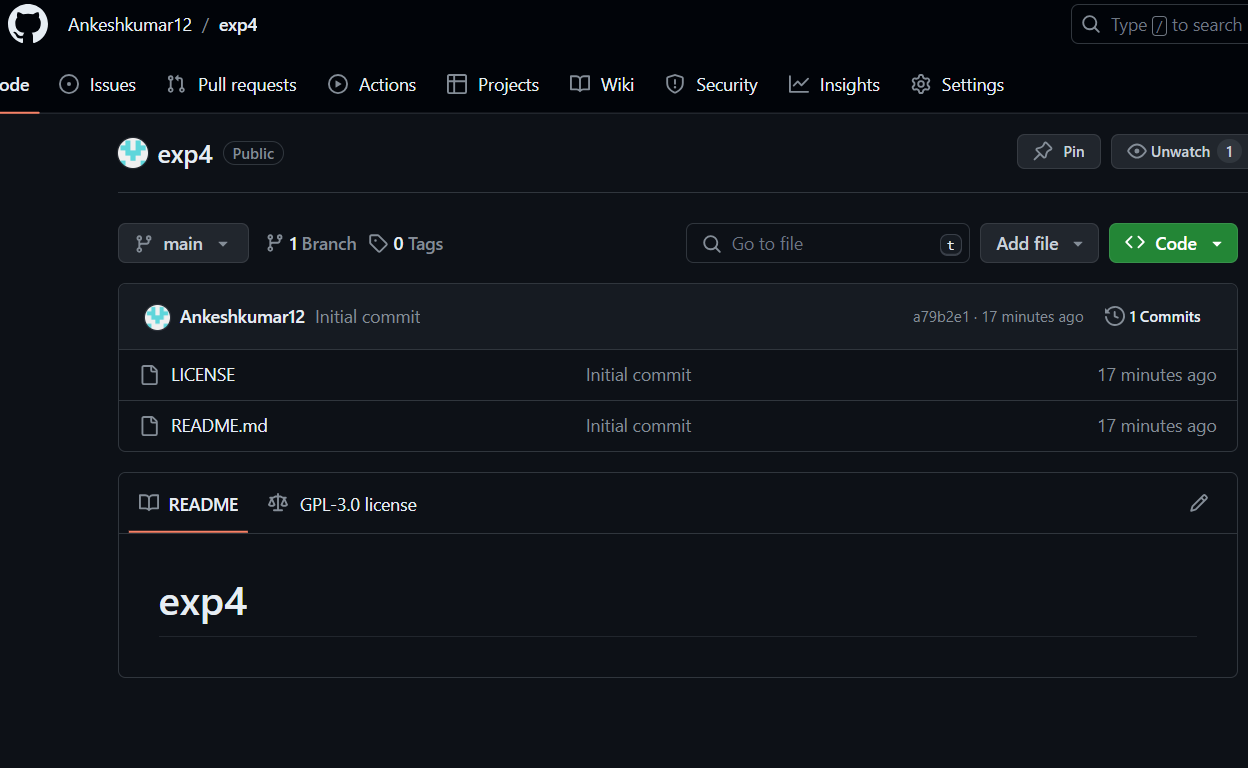
*git add fil1.c or git add .*

*git commit -m“commit message”*

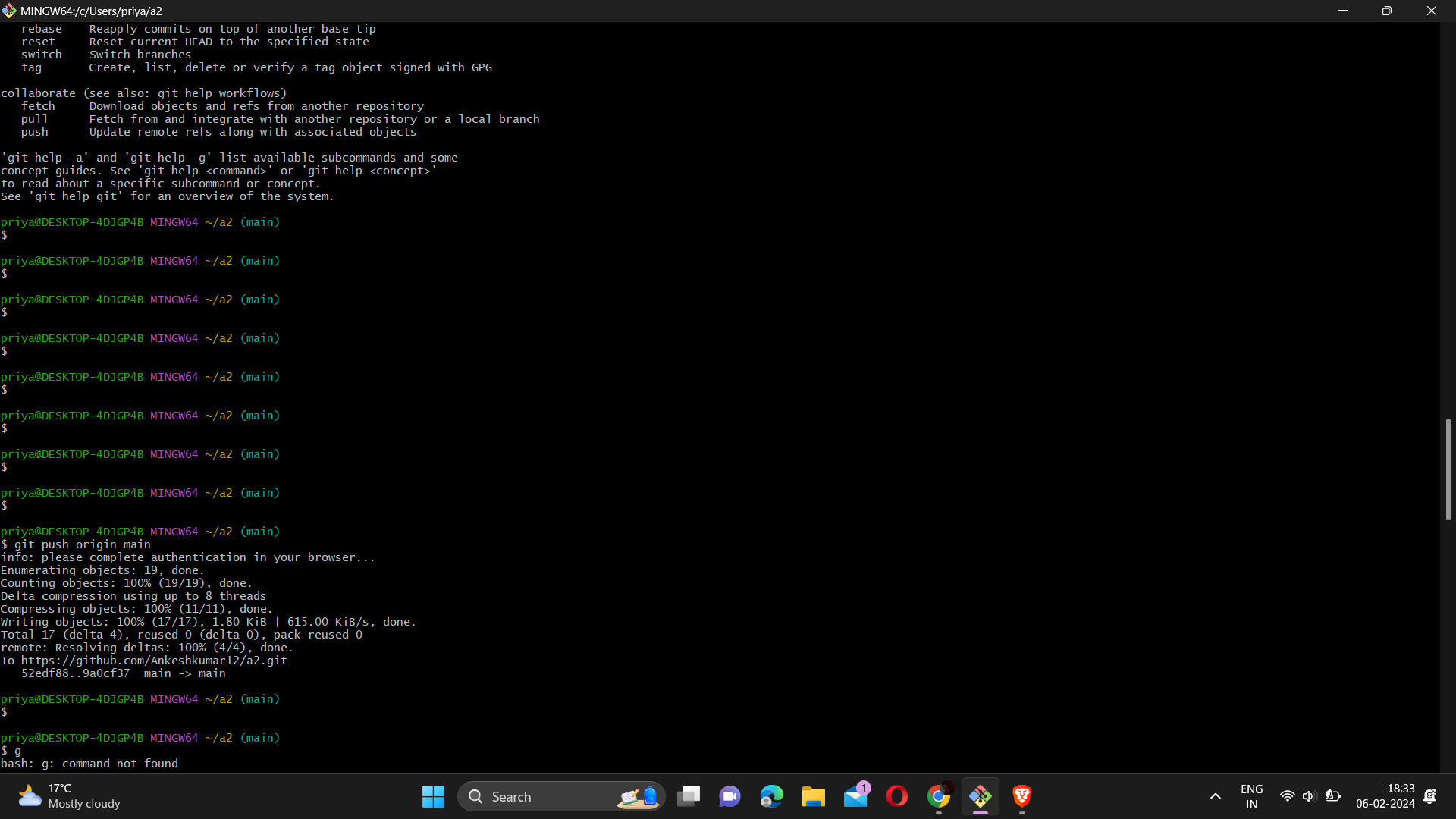
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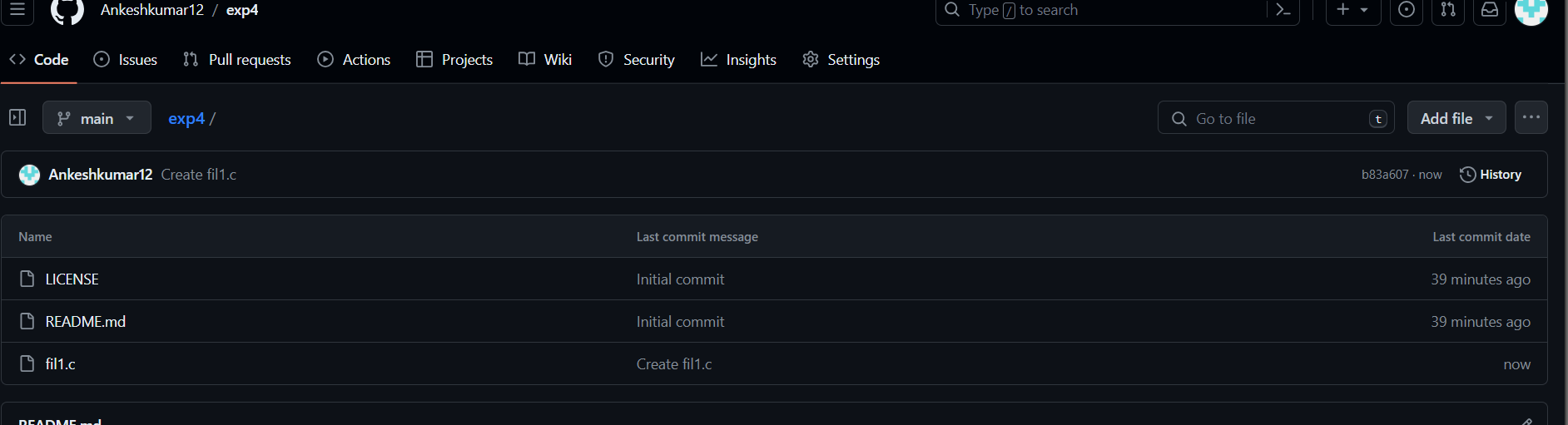
1. Let’s push these changes over to our GitHub.

Before push:

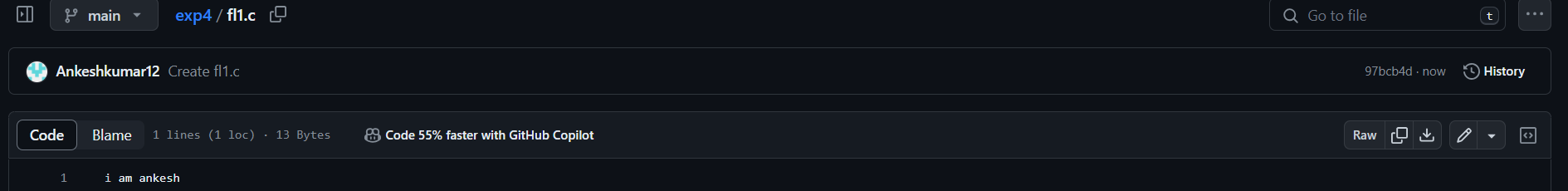


After push:



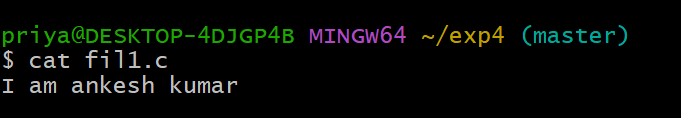


1. Now, let’s make changes over our GitHub fil1.c and pull it over to local.
2. Open fil1.c and press pencil icon in top-right corner.
3. Commit the changes.

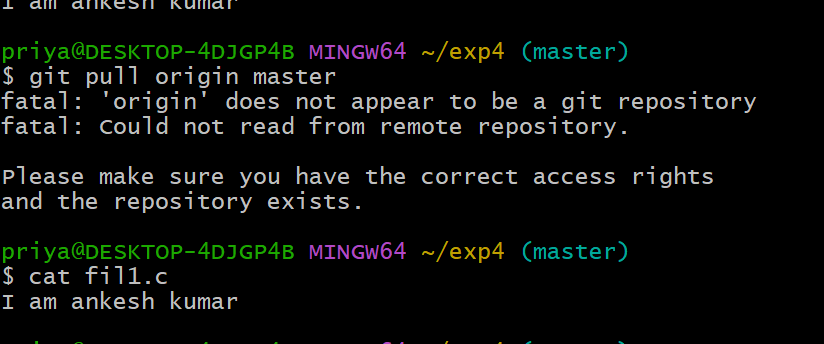


1. Also, let’s see the differences before and after pull to local machine.

Before Pull:

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After Pull:



We can see that our local file also changed.

Fetch will not change the local data as saw in last experiment so pull for the win.

1. **Result/Output/Writing Summary:**

In this experiment, I basically created a remote repository over GitHub and cloned it over to local machine. Then I created a file fil1.c locally , added, commited and pushed it over to the remote repository. Then made some changes over remote file and pulled it over to my local machine.

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

**1.** Learnt about cloning of repository.

**2.** Learnt about two stage commit – add and then commit.

**3.** Learnt about using vim editor to create and add data to file.

**4.** Learnt about pushing the changes over to the remote repository.

**5.** Learnt about pulling the changes to the local repository.

**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. |  |  |  |
|  |  |  |  |