# Lesson 01 Demo 01

# Creating and Cloning a GitHub Repository

**Objective:** To create and clone a GitHub repository for managing, tracking, and collaborating on code efficiently

**Prerequisite:** GitHub Account

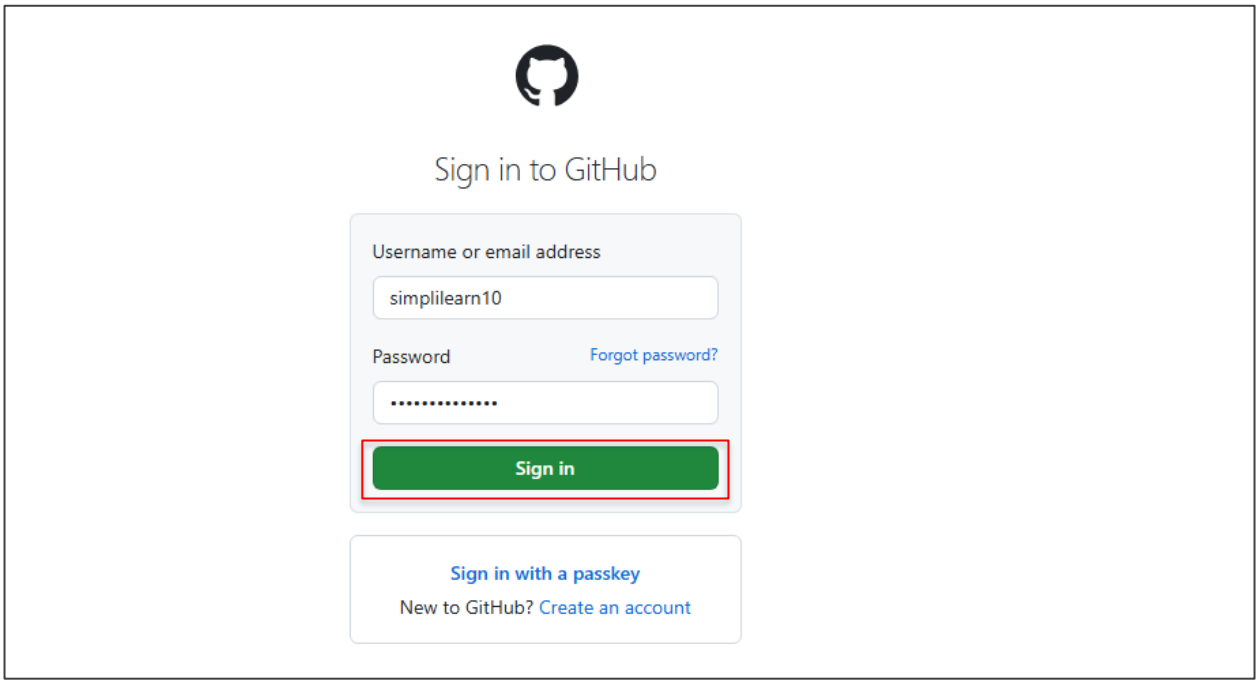
**Tools required:** Git

Steps to be followed:

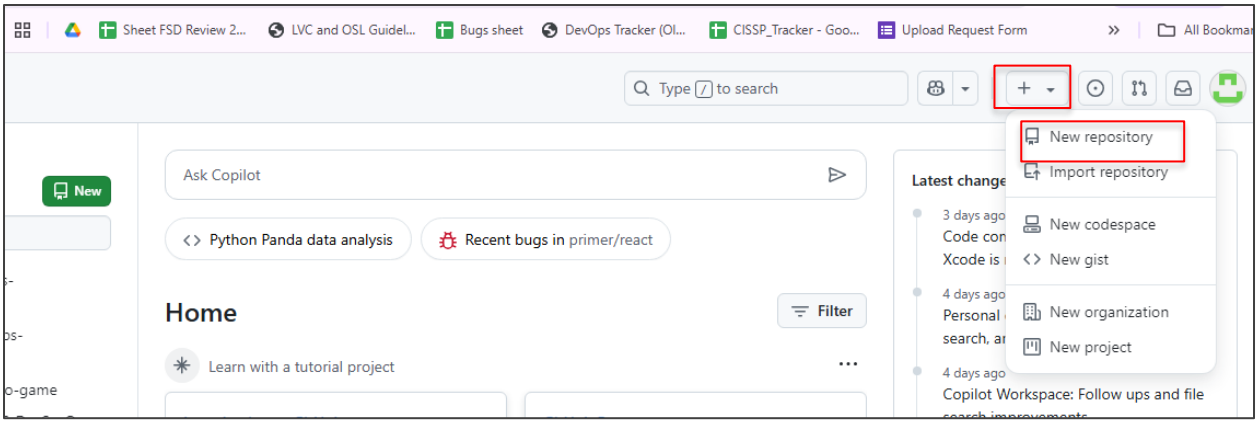
1. Create a new GitHub repository
2. Edit the README file
3. Create a file in the repository
4. Clone the GitHub repository

## Step 1: Create a new GitHub repository

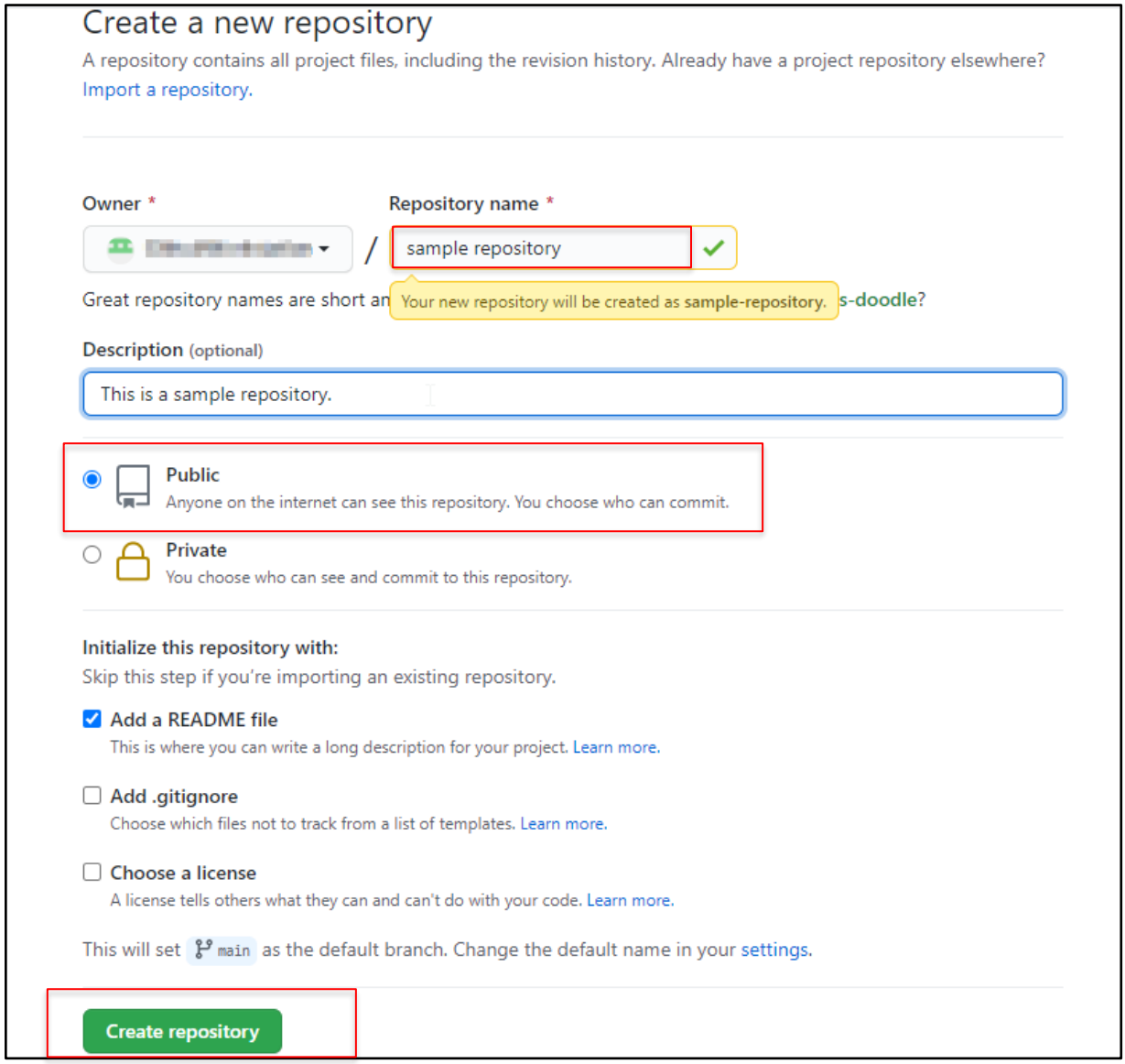
1.1 Open a browser in your lab, go to **github.com,** and log in to your account




1.2 Click on the **+** icon from the upper-right corner of the page and select **New repository** from the drop-down menu

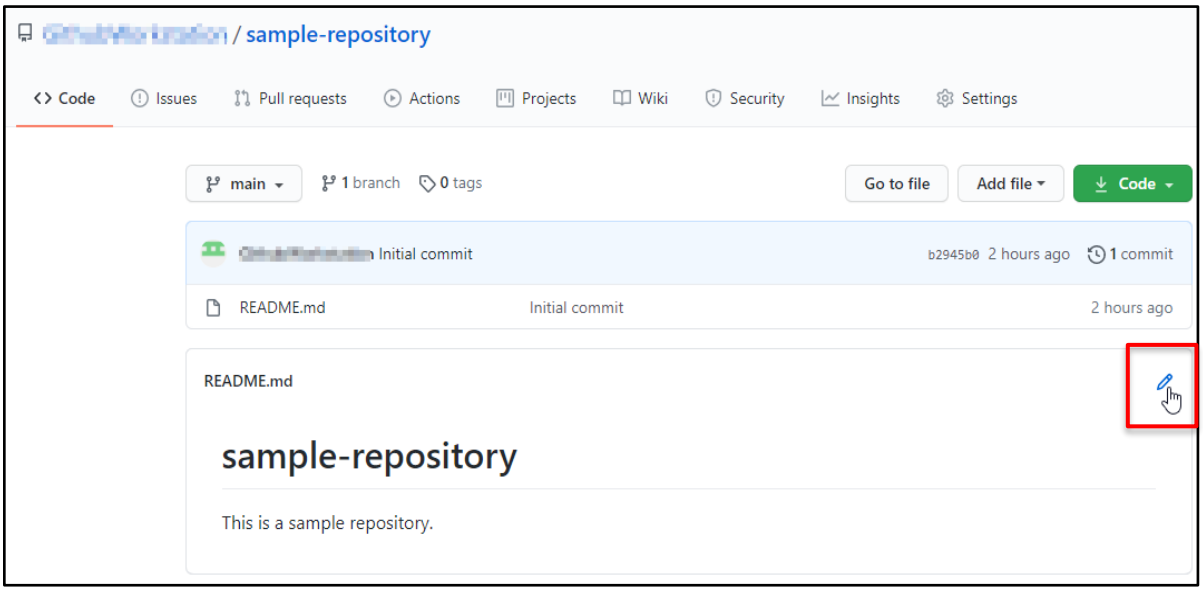


1.3 Enter the **Repository name**, choose **Public**, select **Initialize this repository with a README,** and click on the **Create repository** button



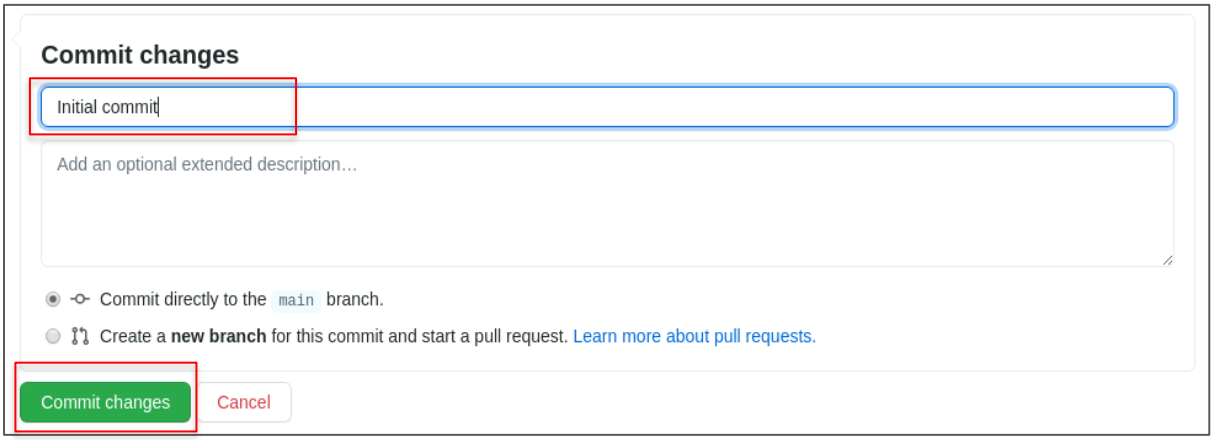
## Step 2: Edit the README file

1.1 Click on the Edit icon to edit the README.md file



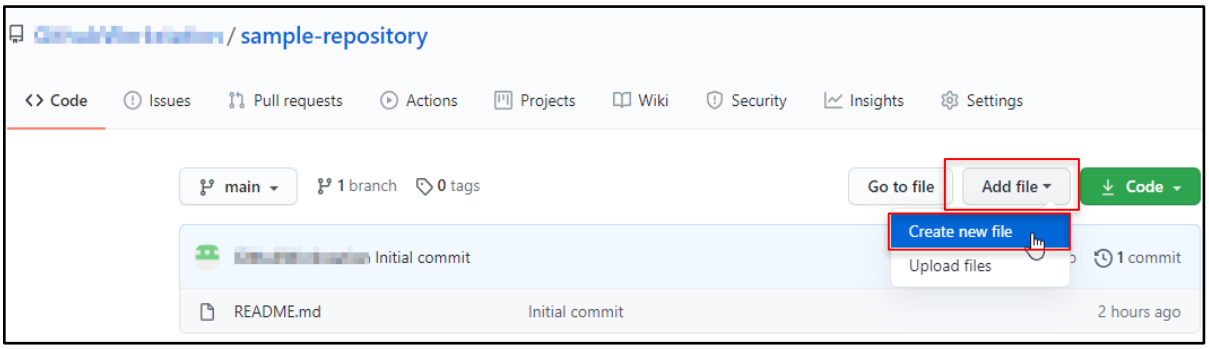

1.1 Add some text in the README file (Example: **We have edited the README file.**)

2.3 Type a commit message to describe the changes made in the file, and then click on **Commit changes**

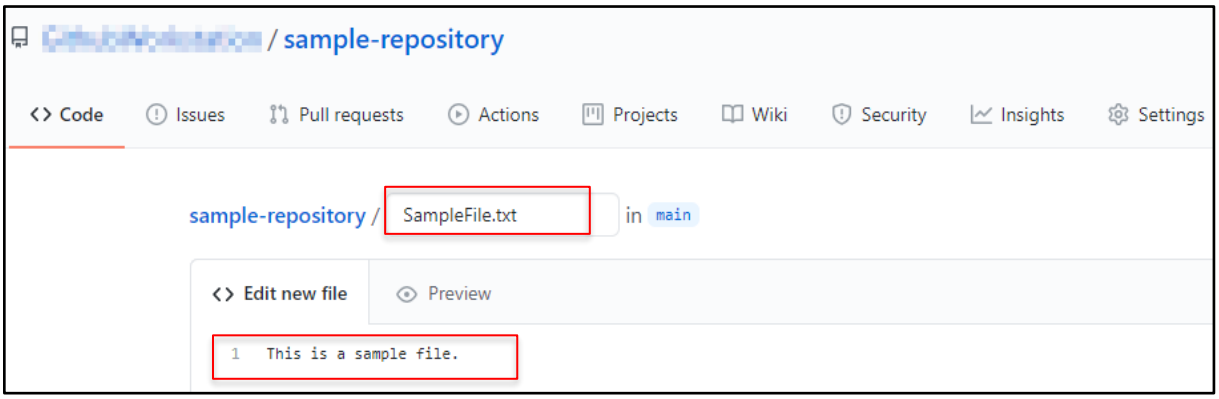



## Step 3: Create a file in the repository

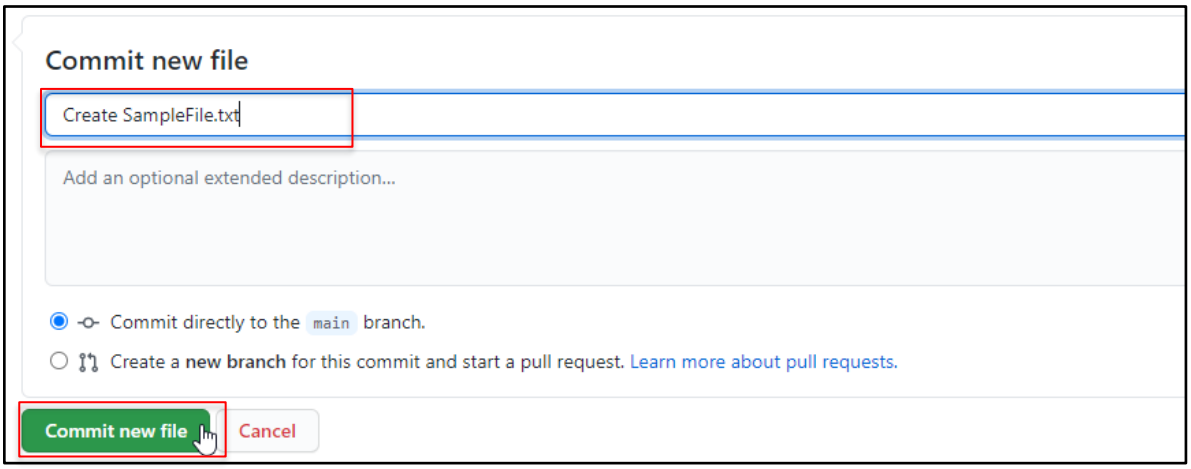
3.1 Navigate to your GitHub repository, click on **Add file**, and then select **Create new file**



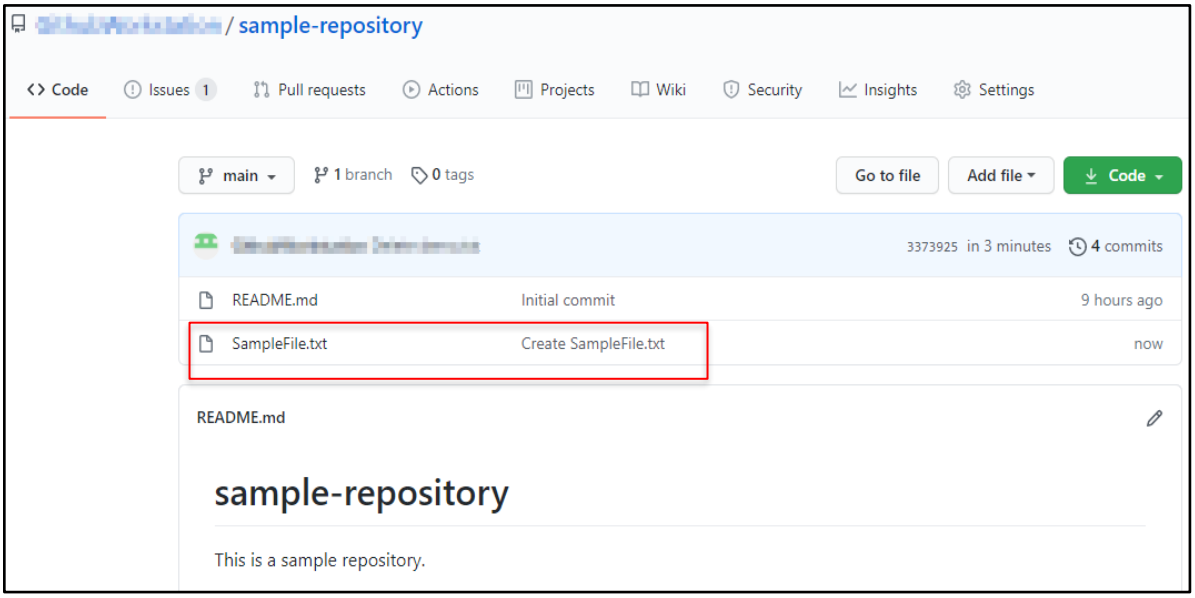
3.2 Enter the filename as **SampleFile.txt** and add the following text in the **Edit new file** tab. This is a sample file.




3.3 Next, scroll down to the **Commit new file** section. Write a commit message as **Create SampleFile.txt** and click on the **Commit new file**.

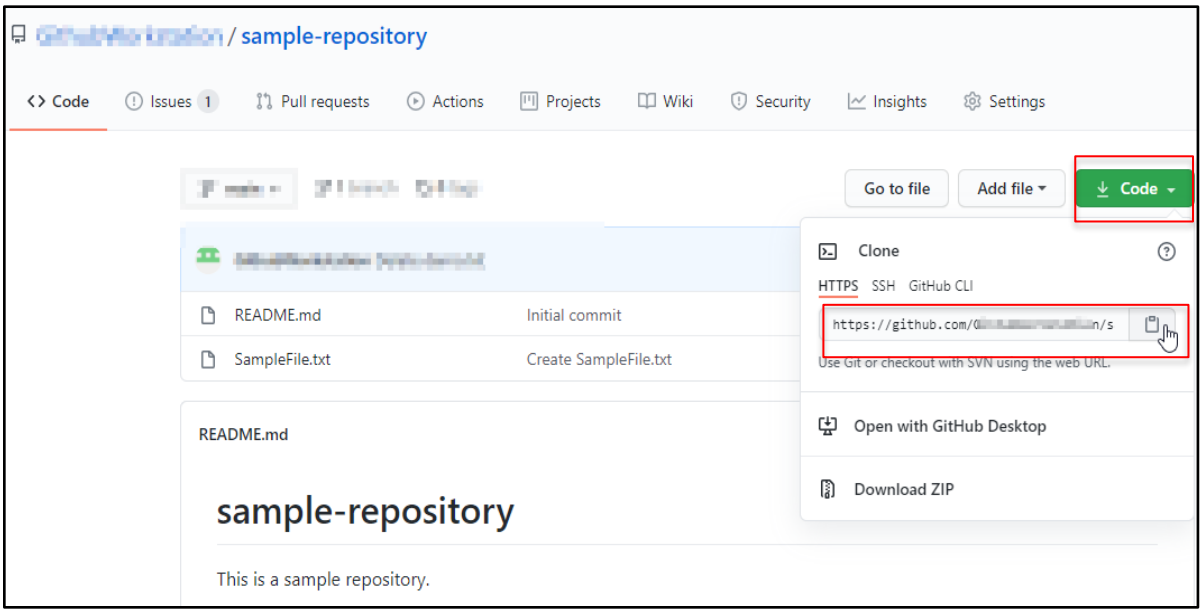


3.4 Check the newly added file with the commit message




## Step 4: Clone the GitHub repository

4.1 Open the **sample-repository** repo, click on the **Code,** and copy the HTTPS URL



4.2 Open the **Terminal** tab on your lab and use the following command to clone the repository:
**git clone URL**

```
[redacted]@ip-172-31-71-23:~$ git clone https://github.com/GithubWorkstation/sample-repository.git
Cloning into 'sample-repository'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 1), reused 15 (delta 1), pack-reused 0
Receiving objects: 100% (15/15), done.
Resolving deltas: 100% (1/1), done.
[redacted]@ip-172-31-71-23:~$
```

**Note:** Replace the URL with the copied URL from the repository

4.3 Use the following command to check the cloned repository:
**ls**

```
manikumarsimpli@ip-172-31-71-23:~$ ls
Desktop    Downloads  New_Folder  Public     Videos      nagiosxi           test.txt           xampp-cli-master
Documents  Music      Pictures    Templates  master.zip  sample-repository  thinclient_drives  xi-5.8.4.tar.gz
manikumarsimpli@ip-172-31-71-23:~$
```

4.4 Execute the below commands to navigate to the sample-repository and check the files inside the repository:
**cd sample-repository**
**ls**

```
[redacted]@ip-172-31-71-23:~$ cd sample-repository
[redacted]@ip-172-31-71-23:~/sample-repository$ ls
Merging  README.md  demo.txt
[redacted]@ip-172-31-71-23:~/sample-repository$
```

By following these steps, you have successfully created and cloned a GitHub repository to manage, track, and collaborate on code efficiently.