Lesson 01 Demo 03

Pushing Files to GitHub Repository

Objective: To push a file to a GitHub repository to update the repository with new changes, making them accessible to collaborators and version control tracking

Prerequisite: GitHub Account

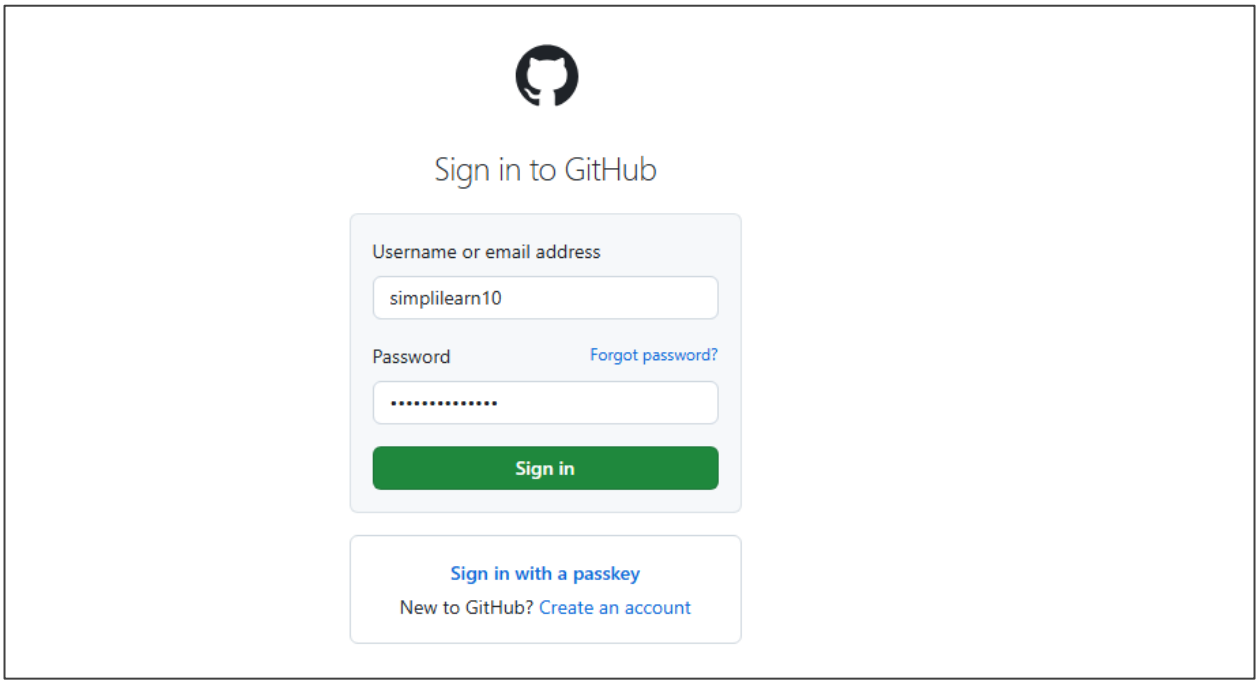
Tools required: Git

Steps to be followed:

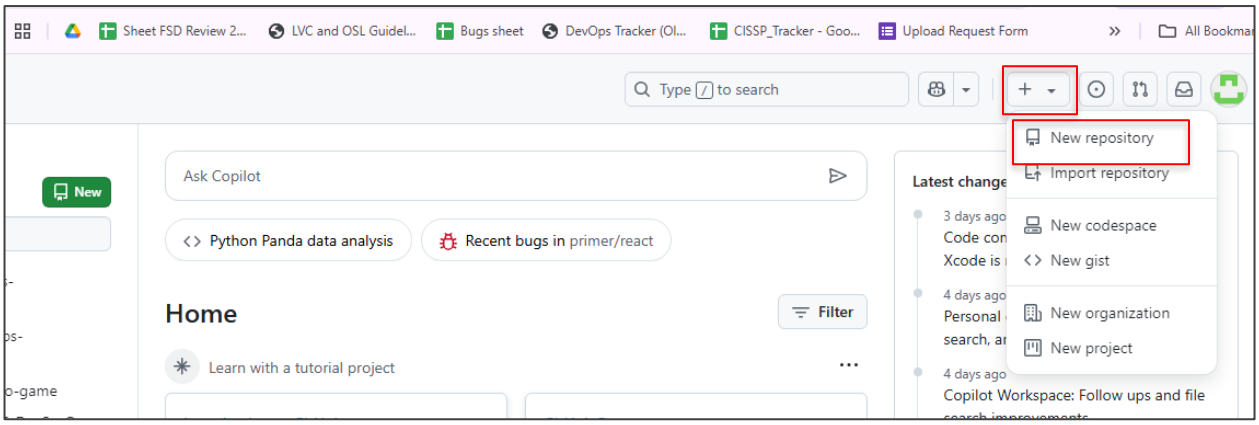
1. Create a GitHub repository
2. Create a repository on the local machine
3. Push the changes from local repository to GitHub
4. Check the status of the local and remote repository

Step 1: Create a GitHub repository

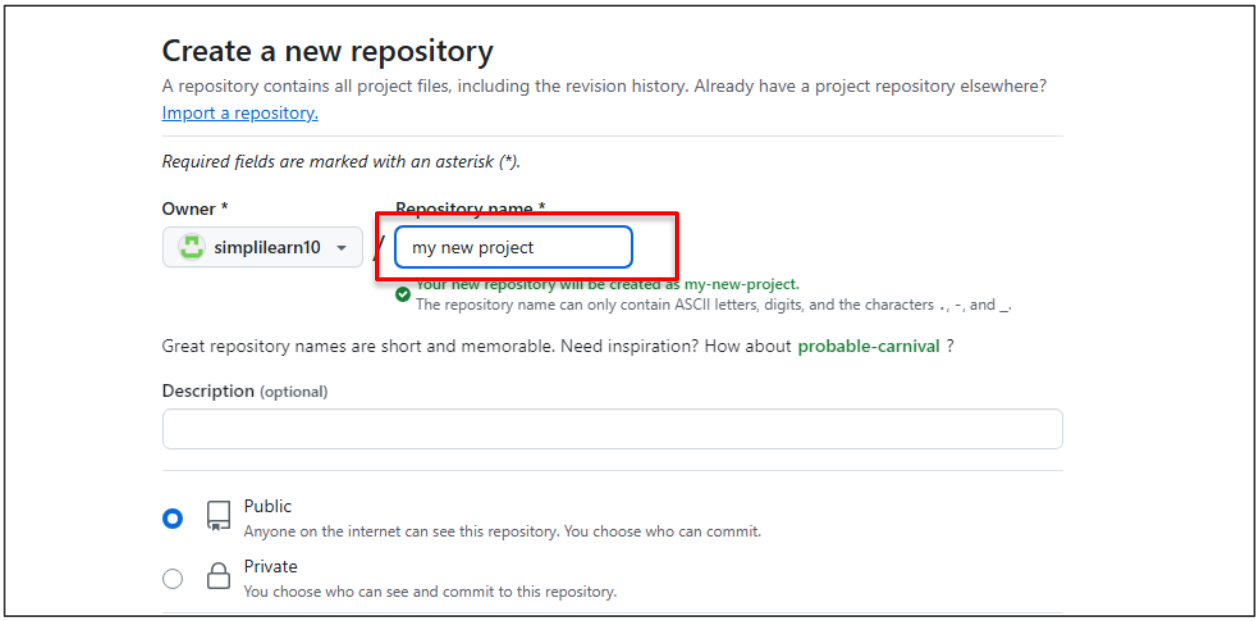
1.1 Go to GitHub.com and log in to your account

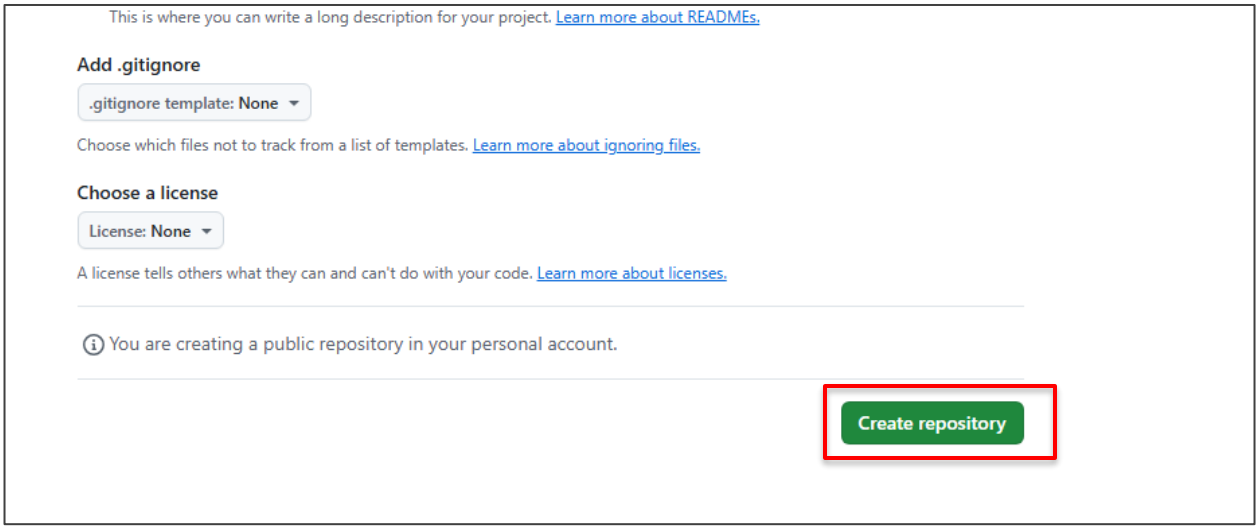


1.2 Click on the **+** icon from the upper-right corner of the page and select **New repository** from the drop-down menu



1.3 Enter the Repository name and click on **Create repository** button





Step 2: Create a repository on the local machine

2.1 In the terminal, execute the following commands to create and initialize a Git repository:

mkdir createnewproject

cd createnewproject

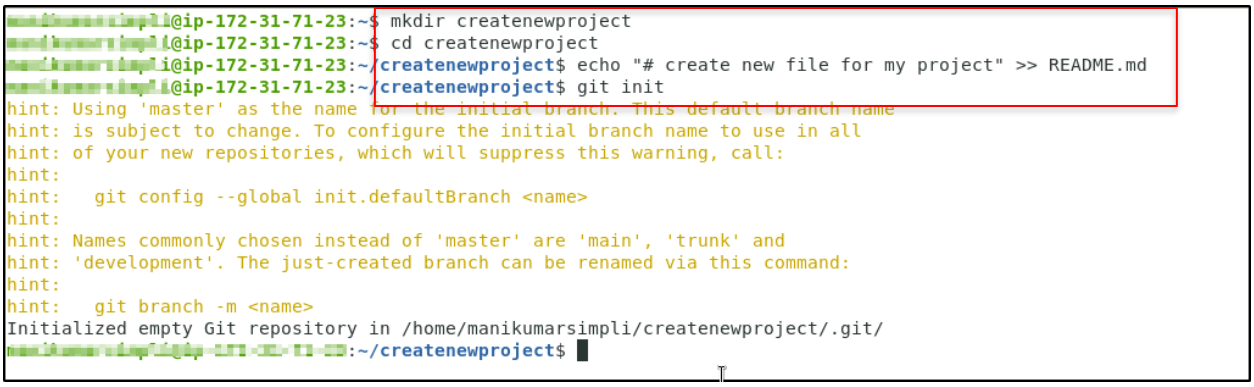
echo "# create new file for my project" >> README.md

git init

git add README.md

git commit -m "first commit"

git branch -M main



```
[redacted]@ip-172-31-71-23:~/createnewproject$ git add README.md
[redacted]@ip-172-31-71-23:~/createnewproject$ git commit -m "first commit"
[master (root-commit) 016a159] first commit
 Committer: manikumarsimpli <manikumarsimpli@ip-172-31-71-23.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 1 insertion(+)
 create mode 100644 README.md
[redacted]@ip-172-31-71-23:~/createnewproject$ git branch -M main
[redacted]@ip-172-31-71-23:~/createnewproject$
```

Step 3: Push the changes from local repository to GitHub

3.1 Open the terminal on the local machine, then use the following command to add a remote repository and push the changes to the remote repository:

git remote add origin <Your HTTPS_URL>

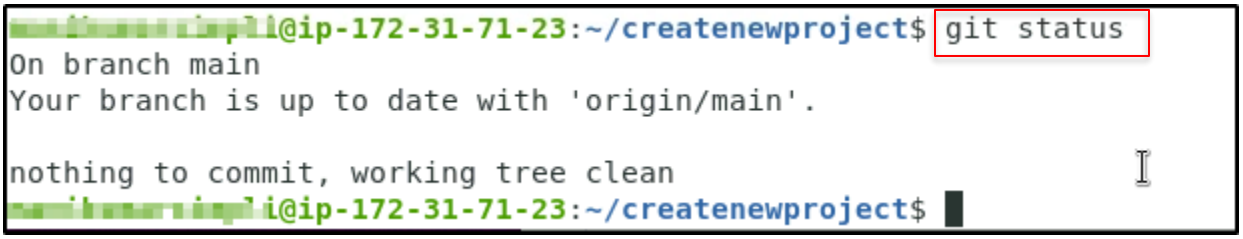
git push -u origin main

```
[redacted]@ip-172-31-71-23:~/createnewproject$ git remote add origin https://github.com/GithubWorkstation/my-new-project.git
[redacted]@ip-172-31-71-23:~/createnewproject$ git push -u origin main
Username for 'https://github.com': GithubWorkstation
Password for 'https://GithubWorkstation@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 258 bytes | 258.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GithubWorkstation/my-new-project.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
[redacted]@ip-172-31-71-23:~/createnewproject$
```

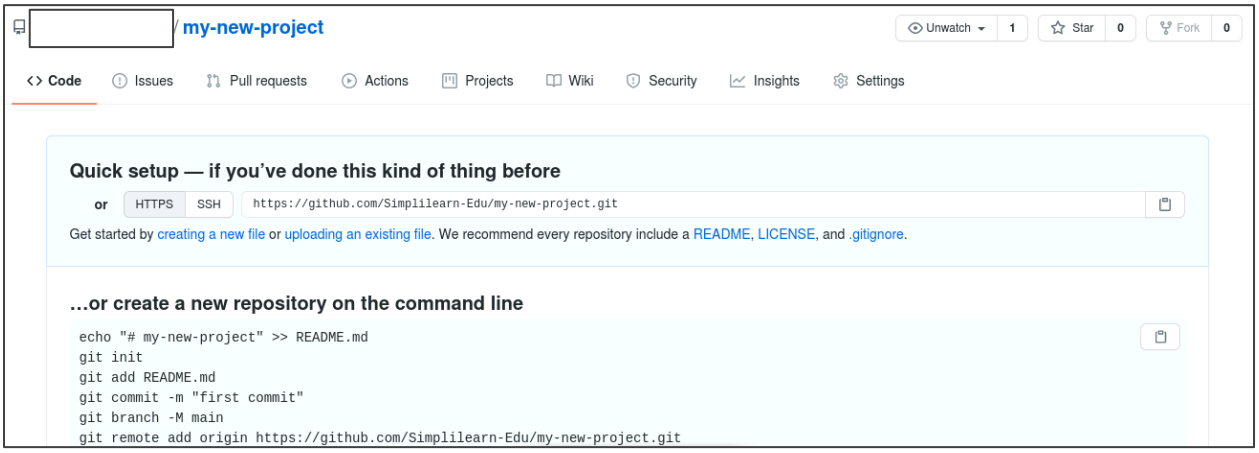
Step 4: Check the status of the local and remote repository

4.1 Run the following command to check the status of the local repository:

git status



4.2 Go to GitHub.com and check the remote repository



By following these steps, you have successfully pushed a file to a GitHub repository to update the repository with new changes, making them accessible to collaborators and version control tracking.