Description:

This assignment is designed to help understand working with the version control system, git. Further, creating code repositories on GitHub and using various git commands to push the code on GitHub.
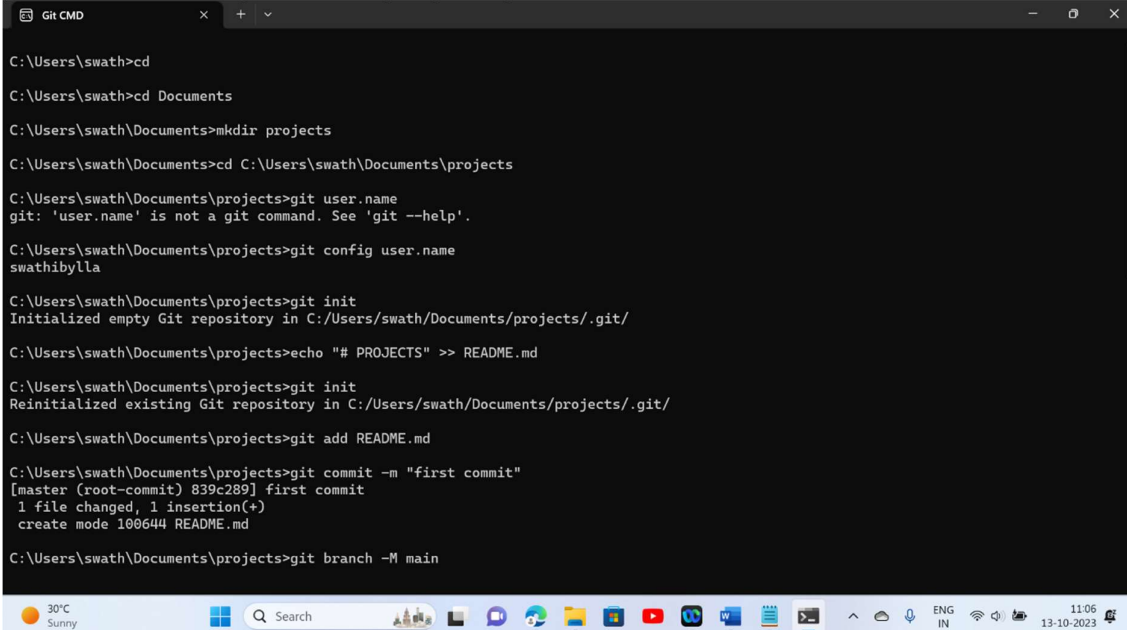
Problem Statement:

Henna Solutions, a software company, is working on a web application project. The company aims to create certain HTML Web Pages for the Authentication flow in the project for their client. Developers and programmers in the project development team need to sync the code to GitHub to work on code collaboratively.

Tasks:

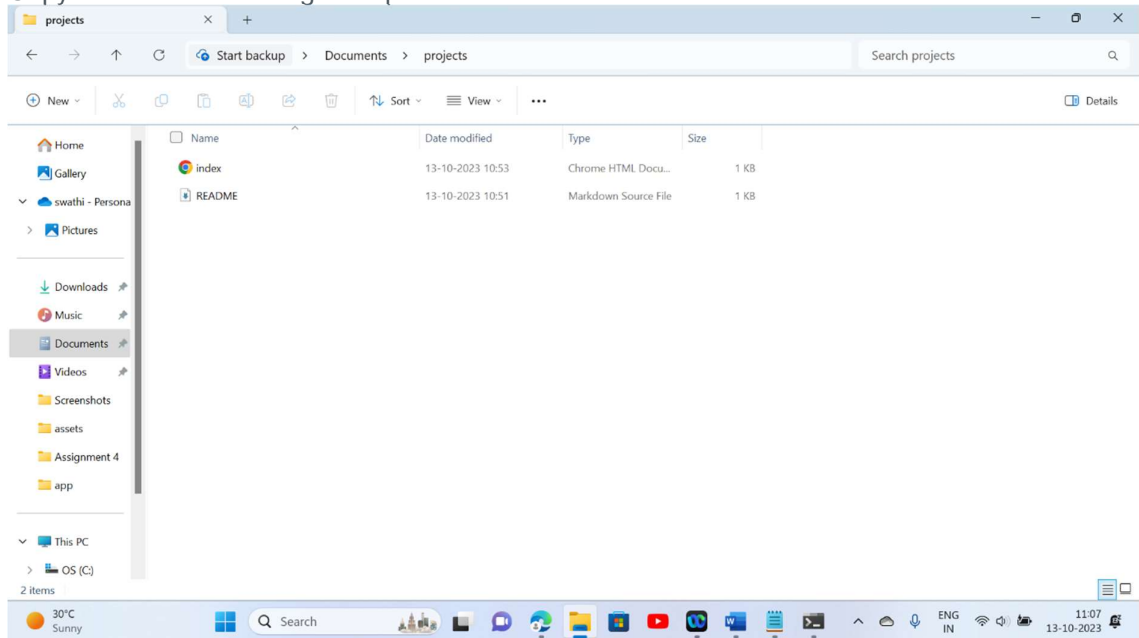Perform the below activities as a solution:

- Create a Project Directory in your system

```
C:\Users\swath>cd

C:\Users\swath>cd Documents

C:\Users\swath\Documents>mkdir projects

C:\Users\swath\Documents>cd C:\Users\swath\Documents\projects

C:\Users\swath\Documents\projects>git user.name
git: 'user.name' is not a git command. See 'git --help'.

C:\Users\swath\Documents\projects>git config user.name
swathibylla

C:\Users\swath\Documents\projects>git init
Initialized empty Git repository in C:/Users/swath/Documents/projects/.git/

C:\Users\swath\Documents\projects>echo "# PROJECTS" >> README.md

C:\Users\swath\Documents\projects>git init
Reinitialized existing Git repository in C:/Users/swath/Documents/projects/.git/

C:\Users\swath\Documents\projects>git add README.md

C:\Users\swath\Documents\projects>git commit -m "first commit"
[master (root-commit) 839c289] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

C:\Users\swath\Documents\projects>git branch -M main
```

- Copy the HTML Web Pages as provided

- Create a ReadMe.md file

- Initialize the git locally in your project folder

```
C:\Users\swath\Documents\projects>git init
Initialized empty Git repository in C:/Users/swath/Documents/projects/.git/

C:\Users\swath\Documents\projects>echo "# PROJECTS" >> README.md

C:\Users\swath\Documents\projects>git init
Reinitialized existing Git repository in C:/Users/swath/Documents/projects/.git/

C:\Users\swath\Documents\projects>git add README.md

C:\Users\swath\Documents\projects>git commit -m "first commit"
[master (root-commit) 839c289] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

C:\Users\swath\Documents\projects>git branch -M main
```
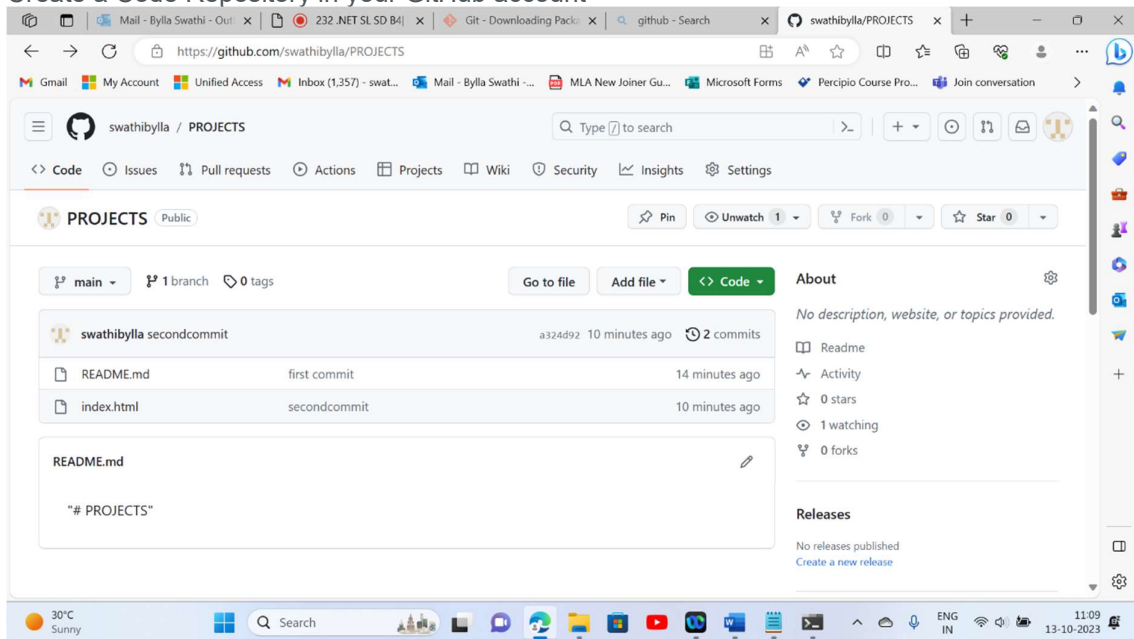
- Create a Code Repository in your GitHub account

- Add the remote origin to your local repository

```
C:\Users\swath\Documents\projects>git remote add origin https://github.com/swathibylla/PROJECTS.git

C:\Users\swath\Documents\projects>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 223 bytes | 223.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/swathibylla/PROJECTS.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

C:\Users\swath\Documents\projects>git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

C:\Users\swath\Documents\projects>git add index.html

C:\Users\swath\Documents\projects>git commit -m "secondcommit"
[main a324d92] secondcommit
 1 file changed, 8 insertions(+)
 create mode 100644 index.html

C:\Users\swath\Documents\projects>git branch -M main

C:\Users\swath\Documents\projects>git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 355 bytes | 355.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/swathibylla/PROJECTS.git
```

Add the source files to the local repository

```
C:\Users\swath\Documents\projects>git add index.html

C:\Users\swath\Documents\projects>git commit -m "secondcommit"
[main a324d92] secondcommit
 1 file changed, 8 insertions(+)
 create mode 100644 index.html

C:\Users\swath\Documents\projects>git branch -M main

C:\Users\swath\Documents\projects>git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 355 bytes | 355.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/swathibylla/PROJECTS.git
```

- Check the status on git

```
C:\Users\swath\Documents\projects>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

C:\Users\swath\Documents\projects>
```

- Commit the code with a message

- Push the code to the remote repository on Git