# Experiment 8:

A) Creating static pages of the project and committing using Git and GitHub

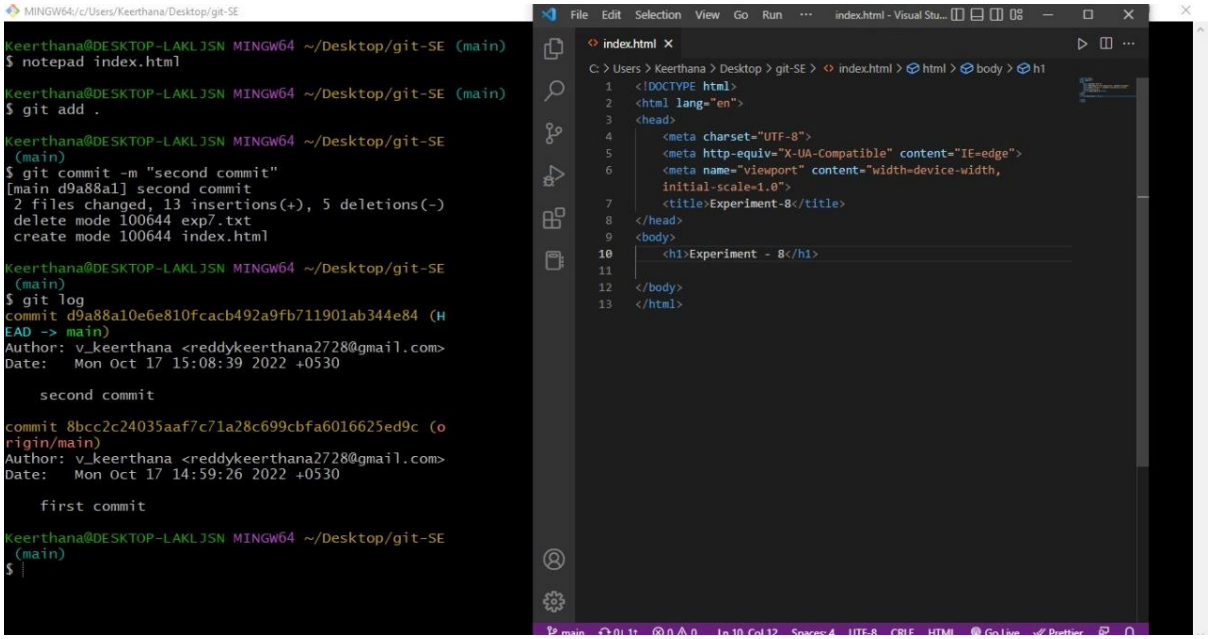
B) Facilitating Collaborative Work

**AIM:** To experience the real-time scenario of collaborative coding. When multiple developers work on the same project all the team members will be provided with reading/write access. This facilitates tracking of the modification made to the code by everyone and maintains different versions of the developed modules.

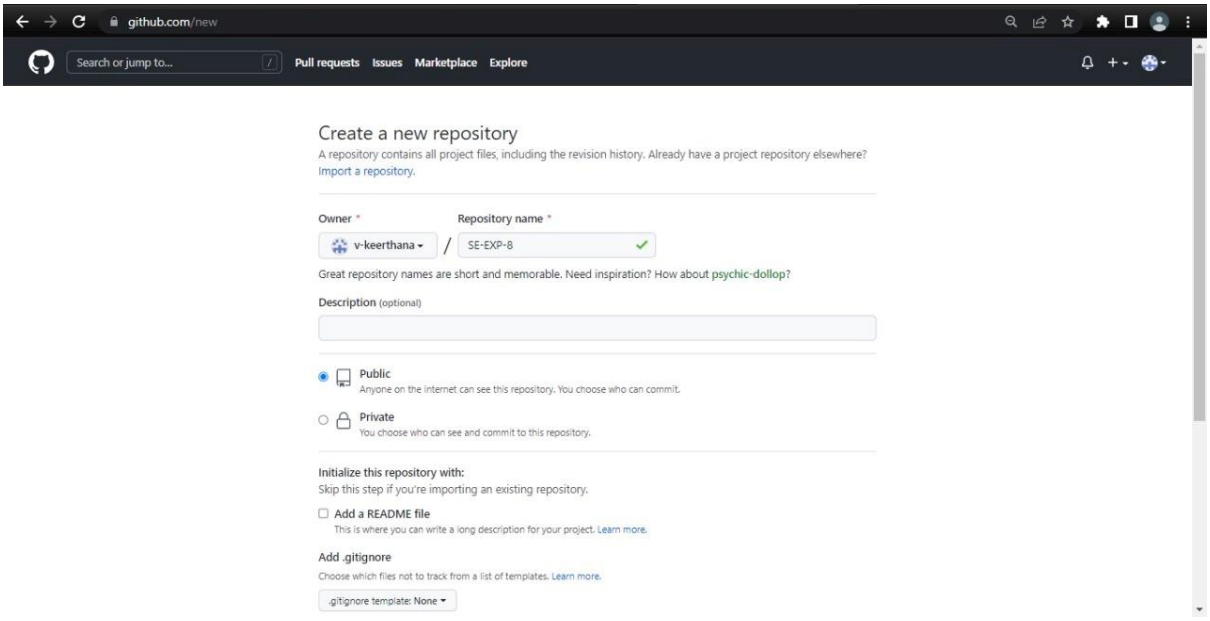
**Procedure:**

## A. Creating static pages of the project and committing using Git and GitHub

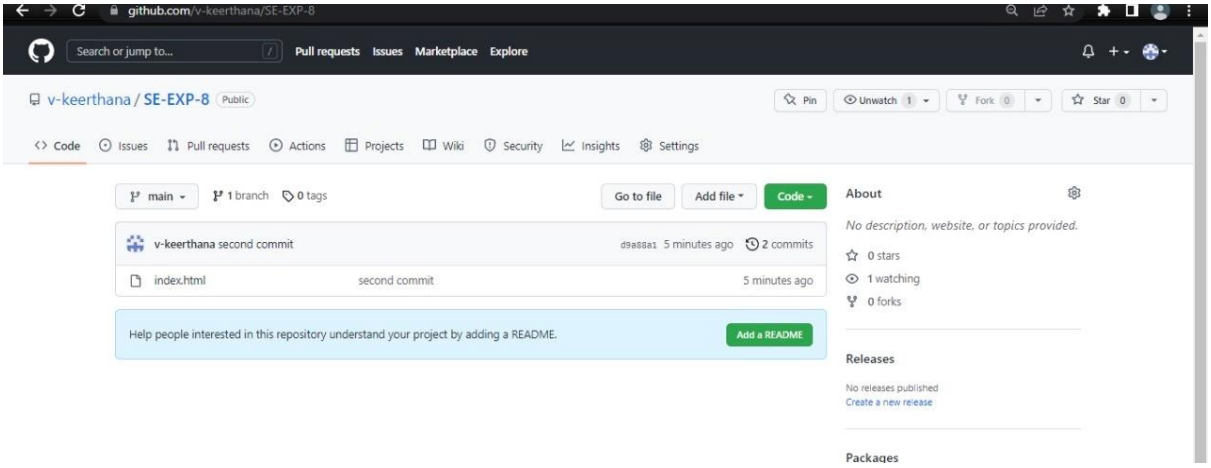
- Create a directory in the local system for working on the project
- Change to that directory
- Create an empty git repository by running - the **git init** command.




- Create any static page for the project using HTML.
- Here is the sample code for the student login form as shown below.
- Commit the changes made to the new file. You can also view the status and observe the changes before and after commit.
- Create a new repository on GitHub




- Link the remote repository and the local repository using the git remote command




- Push the local repository contents on tp the remote repository using command
    - **git push -u origin master**

- ```
  Keerthana@DESKTOP-LAKLJSN MINGW64 ~/Desktop/git-SE (main)
  $ git remote rm origin

  Keerthana@DESKTOP-LAKLJSN MINGW64 ~/Desktop/git-SE (main)
  $ git push -u origin main
  fatal: 'origin' does not appear to be a git repository
  fatal: Could not read from remote repository.

  Please make sure you have the correct access rights
  and the repository exists.

  Keerthana@DESKTOP-LAKLJSN MINGW64 ~/Desktop/git-SE (main)
  $ git remote add origin https://github.com/v-keerthana/SE-EXP-8.git

  Keerthana@DESKTOP-LAKLJSN MINGW64 ~/Desktop/git-SE (main)
  $ git push -u origin main
  Enumerating objects: 6, done.
  Counting objects: 100% (6/6), done.
  Delta compression using up to 4 threads
  Compressing objects: 100% (4/4), done.
  Writing objects: 100% (6/6), 684 bytes | 97.00 KiB/s, done.
  Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
  To https://github.com/v-keerthana/SE-EXP-8.git
   * [new branch]      main -> main
  branch 'main' set up to track 'origin/main'.

  Keerthana@DESKTOP-LAKLJSN MINGW64 ~/Desktop/git-SE (main)
  $
  ```

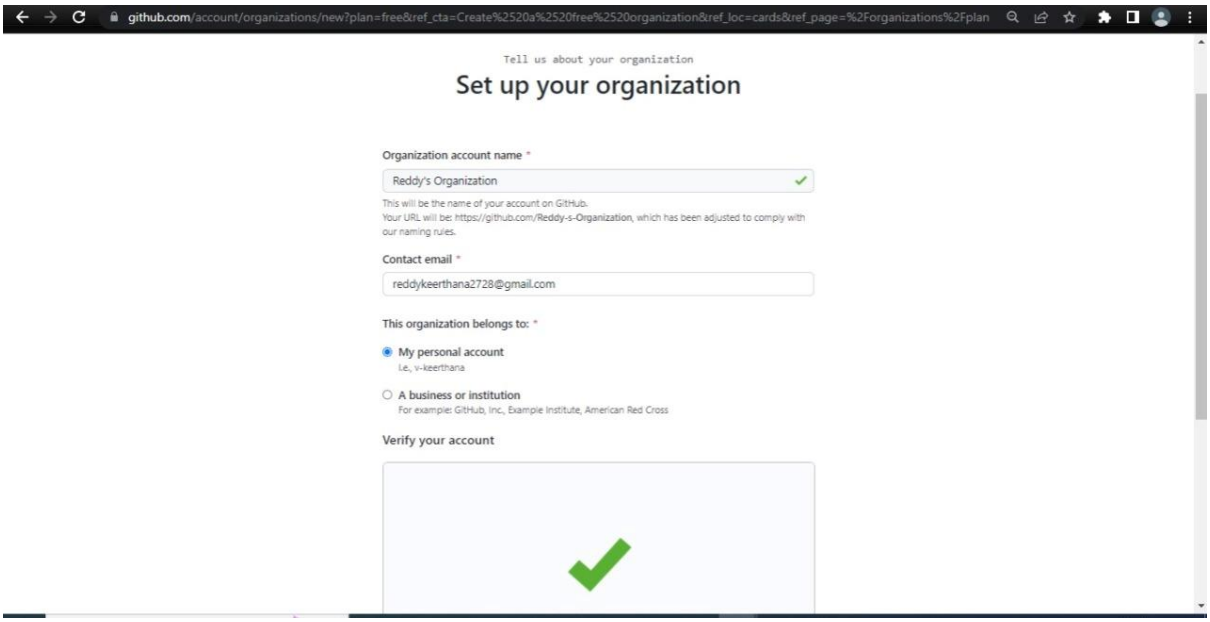
- Refresh GitHub to check the uploaded content

- The co-developers can clone this to their local repository, view, edit, and contribute their inputs
  ```

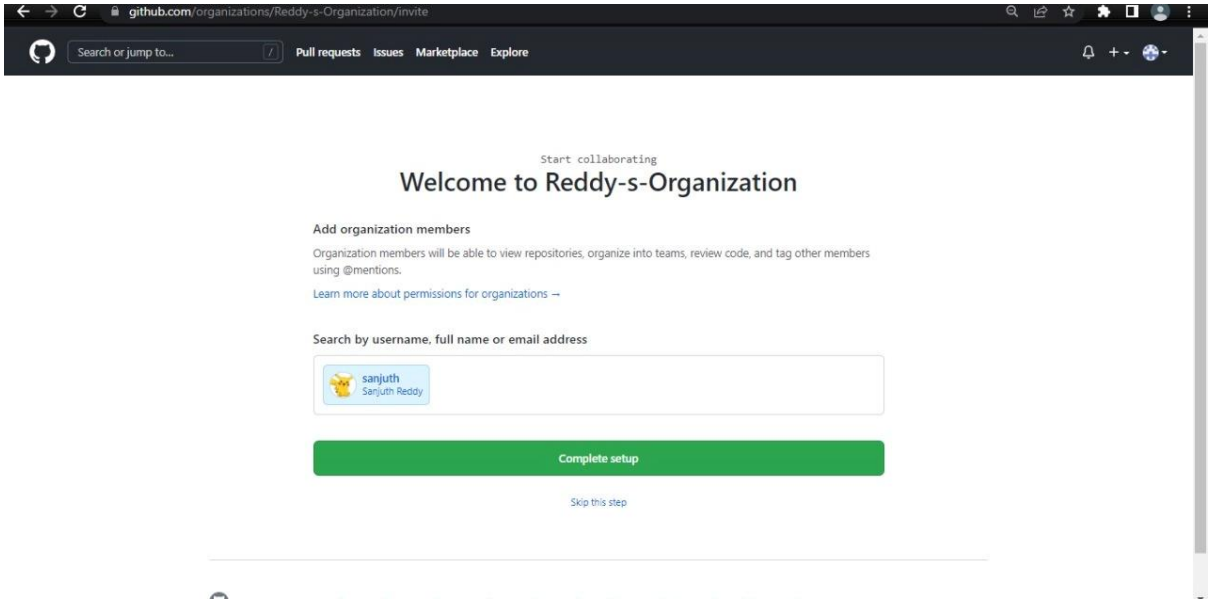
## B. Facilitating Collaborative Work

**Step 1:** Create a new Organization - Organizations are shared accounts where businesses and open-source projects can collaborate across many projects at once. Owners and administrators can manage member access to the organization's data and projects with sophisticated security and administrative features.

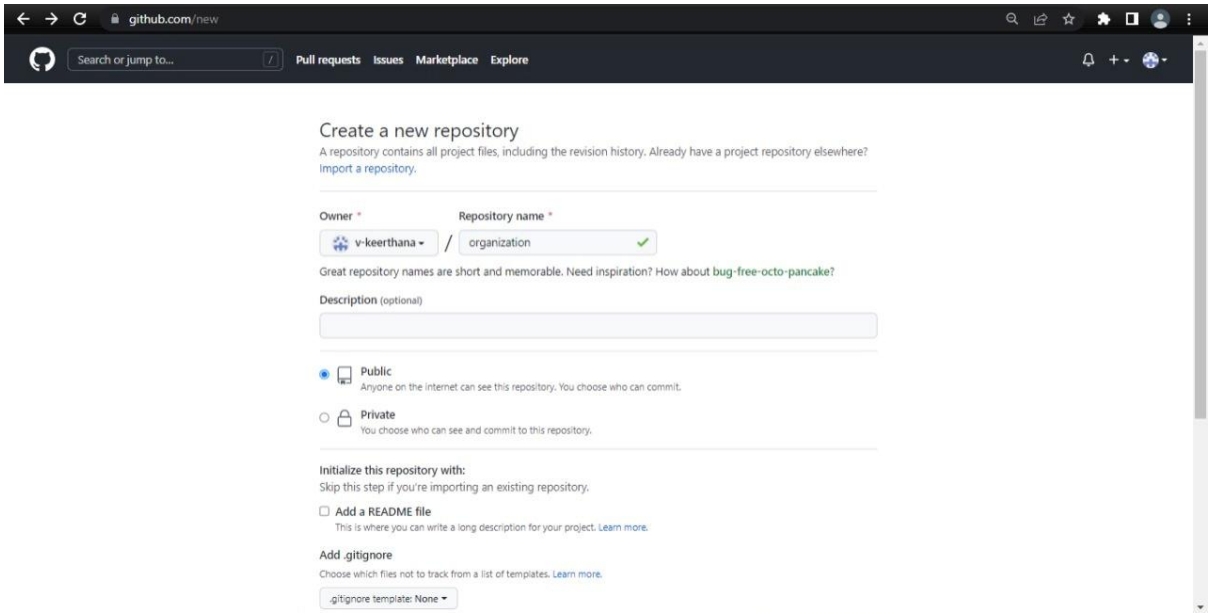
**Step 2:** Set up your organization by entering the details like name, associated email, account verification, inviting or adding members to the organization, etc.




**Step 3:** Complete the setup by adding members to the group




**Step 4:** Create the remote repository for storing the project related files. This repository is accessible to every member of the team as per the permissions given.




The repository can be made private so that it is accessible only to the group members rather than being in a public domain.

Now all the members of the team can contribute to the development of the project and the different files with all the versions and modification notices will be available in the respective repositories and is accessible to all the members.