**Lab Exercise -1 (Git Practice):**

1. Create a new directory called "git-practice" and navigate into it: 2. Initialize a new Git repository:

3. Create a new file called `index.html` with the following content: 4. Check the status of your repository:

5. Add the file to the staging area and make your first commit:

**Branching and Making Changes**

1. Create and switch to a new branch called "feature-navbar": 2. Modify `index.html` to add a navigation bar:

3. Stage and commit your changes:

**Creating a Merge Conflict**

1. Switch back to the main branch:

2. Modify the same file differently ( html file)

3. Stage and commit these changes:

4. Try to merge the feature branch:

5. Resolve the merge conflict by editing the file manually

**Brief explanation of any challenges encountered and how you resolved them**

### Problems & Solutions

1️⃣ **Merge Conflict in index.html** → Occurred due to different changes in the same file while merging branches.  
 ✅ **Solution:** Manually edited the file, removed conflict markers (<<<<<<<, =======, >>>>>>>), kept the correct changes, and committed the resolved file.

2️⃣ **Push Rejected (Fetch First Error)** → GitHub rejected the push because the remote repository had changes not present locally.  
 ✅ **Solution:** Pulled the latest changes using git pull --rebase before pushing again.

3️⃣ **Reinitializing Git Repository Warning** → Warning appeared because Git was already initialized in the directory.  
 ✅ **Solution:** No action needed as Git was already set up.

**Github link:**

https://github.com/Roda1458/git-practice