#### 1. Version Control Using Git in Browser

**Objective:** Learn to use GitHub/GitLab/Bitbucket to manage projects.

#### Lab Steps:

- 1. **Sign Up** at <u>GitHub</u> or <u>GitLab</u>.
- 2. Create a New Repository:
  - o Click New Repository.
  - o Provide a name and description.
  - o Add a **README.md** file.
- 3. Upload Files Manually:
  - o Click Add File > Upload File.
  - Select files and commit changes.
- 4. Modify Files Online:
  - o Open a file and click **Edit**.
  - Make changes and commit.
- 5. Check File History:
  - o Open a file and click **History**.

## **Expected Output:**

• A version-controlled project with a history of changes.

#### 2. Version Control Using Git with Push and Pull Commands

**Objective:** Use Git for version control from the terminal.

### Lab Steps:

- a) Install Git (if not installed):
- b) sudo apt update
- c) sudo apt install git -y
- d) Configure Git:
- e) git config --global user.name "Your Name"
- f) git config --global user.email "you@example.com"
- g) Clone an Existing Repository:
- h) git clone <repository\_url>
- i) cd <repo\_name>
- j) Modify a File & Commit Changes:
- k) echo "New changes" >> file.txt
- 1) git add.
- m) git commit -m "Updated file"
- n) **Push to Remote Repository**:
- o) git push origin main
- p) Pull Latest Changes:
- q) git pull origin main

# **Expected Output:**

• Changes should be reflected on GitHub/GitLab.