**2. Git-HOL**

**Objective**

* To understand and implement .gitignore in Git.
* To ignore unwanted files and folders (e.g., .log files and log/ folder) in a Git project.

**Prerequisites**

* Git installed and configured.
* Notepad++ set as the default Git editor (optional).
* A local Git repository created.
* A remote GitLab repository created and linked.

**🔷 Steps Performed**

**Step 1: Initialize Git Repository**

mkdir git-ignore-lab

cd git-ignore-lab

git init

**Step 2: Create Test Files**

echo "This is a log file" > sample.log

mkdir log

echo "Error message" > log/error.log

echo "This is a main file" > main.txt

**Step 3: Create and Configure .gitignore**

1. Open .gitignore in Notepad++:

notepad++ .gitignore

1. Add the following content:

\*.log

log/

**✅ Step 4: Check Git Status**

git status

**Expected:**

* Only main.txt and .gitignore should be visible as untracked files.
* sample.log and log/ should be ignored.

**Step 5: Stage and Commit Files**

git add .

git commit -m "Initial commit with .gitignore"

**Step 6: Create a Remote Repository on GitLab**

* Created new project: git-ignore-lab
* Remote URL: https://gitlab.com/your-username/git-ignore-lab.git

**Step 7: Connect Local Repo to GitLab**

git remote add origin https://gitlab.com/your-username/git-ignore-lab.git

git push -u origin master

**🔷 Verification**

* .gitignore file successfully ignored:
  + sample.log (file with .log extension)
  + log/ folder
* Only tracked files (main.txt, .gitignore) pushed to GitLab.
* git status showed clean working tree after commit.
* Verified on GitLab: only expected files are visible.

