EXPERIMENT NO: 3 **DATE:**

Aim: Practice Source code management on GitHub. Experiment with the source code written in exercise 1.

Description:

GitHub is a cloud-based platform that allows developers to store, share, and collaboratively work on code using a version control system called Git, enabling them to track changes made to their projects over time, review code with others, and manage different versions of their files within a "repository" - essentially a project folder on GitHub; making it a popular tool for open-source software development and team collaboration**.**

Let us practice Source code management on GitHub by creating a repository with the name **"DevOps-lab"** and by using the git commands we push the source code in the repository.

PROCEDURE:

STEP-1:

Create a GitHub Repository

- Log in to GitHub.
- Create a repository named DevOps-lab.
- Do initialize with README, .gitignore , or license if needed.
- Copy the repository URL.

STEP-2:

Clone the Repository

- Open VS Code and its terminal.
- Run the following commands: cd
  path\to\your\directory git
  clone <repository-url>
  - Git clone https://github.com/hafeezamohammad/DevOps.git

```
PS C:\devops\devops> git clone https://github.com/hafeezamohammad/DevOps.git
Cloning into 'DevOps'...
remote: Enumerating objects: 23, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (19/19), done.
Rremote: Total 23 (delta 1), reused 11 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (23/23), 1.45 MiB | 317.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
PS C:\devops\devops>
```

STEP-3:

Add Files and Folders

- Navigate to the cloned repository: cd DevOps-Lab

After navigate to the cloned repository now create a templates folder and place the registration.html and success.html in it. Outside the templates folder create a file app.py.

STEP-4:

Stage, Commit, and Push Changes

git add .

```
PS C:\devops\devops\devops1> git add .
```

git commit -m "initial commit"

```
PS C:\devops\devops> git commit -m "Initial commit"
>>
[main dfd1bba] Initial commit
 3 files changed, 1 insertion(+), 85 deletions(-)
 create mode 160000 DevOps
 delete mode 100644 app.py
```

git push origin main

```
PS C:\devops\devops> git push origin main
>>
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 263 bytes | 131.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/hafeezamohammad/DevOps.git
   247f5ff..dfd1bba  main -> main
```

By using these three commands we can push the code into the repository on GitHub.

STEP-6:

Verify on GitHub

1. Go back to your repository on GitHub.
2. Refresh the page to ensure the app.py file and templates folder with files are visible.