

## PERSONAL ACCESS TOKEN-

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### Step 1: First-Time Git Setup (On a New System)

Run these two commands to tell Git your name and email. You only need to do this **once** on any new computer.

```
git config --global user.name "srisaisohan29"
git config --global user.email "srisaisohan29@gmail.com"
```

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### Step 2: Get the Project from GitHub

Clone the repository to create a local copy and then navigate into the new project directory.

```
git clone https://github.com/srisaisohan29/lab-practice.git
cd lab-practice
```

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### Step 3: Create a New Branch for Your Work

Create a new branch so you don't work directly on the master branch.

```
git branch feature-update
git checkout feature-update
```

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### Step 4: Make Changes, Check Status, and Commit

Now, create a new file. Before you add and commit it, use **git status** to see that Git recognizes the new, "untracked" file.

```
# Create a new file named file3.txt with some text inside
git status
git add file3.txt
git commit -m "Add file3 for the new feature"
```

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### Step 5: Check the Commit History

Use **git log** to see your new commit. The **--oneline** flag makes it easy to read.

```
git log --oneline
```

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## Step 6: Keep Your master Branch Synced

Before you merge, make sure your local master branch has the latest updates from the remote repository using **git pull**.

```
git checkout master
git pull origin master
```

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## Step 7: Review Differences and Merge

Use **git diff** to see the changes between your branch and master, and then merge them.

```
git checkout feature-update
git diff master..feature-update
git checkout master
git merge feature-update
```

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## Step 8: Push Your Merged Changes

After merging, push the updated master branch to GitHub.

```
git push origin master
```

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## Step 9: Undo a Commit with revert

If you need to undo the last commit, use **git revert**. HEAD refers to the most recent commit.

```
git revert HEAD
# A text editor will open for the revert commit message, just save and close it.
git push origin master
```