

Lesson 02 Demo 06

Merging Branches in Git

Objective: To merge branches in Git

Tools required: Git

Steps to be followed:

- 1. Create a new branch
- 2. Create a new file in the new branch
- 3. Switch to the main branch
- 4. Merge the branches
- 5. Push the changes to the remote repository

Note: A **projectfile** is already created in Lesson 4 Demo 5. If you do not have the repository, first perform that demo and then execute the steps from this demo.

Step 1: Create a new branch

1.1 Open the Terminal in your lab, and navigate to the sample-repository folder

cd projectfile

1.2 Execute the following command on the terminal to create a new branch:

git branch sample_branch

git branch



Step 2: Create a new file in the sample_branch

2.1 Use the following command to switch to the sample branch:

git checkout sample_branch

2.2 Use the following commands to create an empty HTML file **index1.html**, and add it to the test branch:

touch index1.html

git add index1.html

git commit -a -m "index1.html added to the sample branch"

```
limin light l
Switched to branch 'sample branch'
   miii @ip-172-31-71-23:~/projectfile$ touch index1.html
   @ip-172-31-71-23:~/projectfile$ git add index1.html
 i@ip-172-31-71-23:~/projectfile$ git commit -a -m "index1.html added to the sample branch"
[sample branch 67ded56] index1.html added to the sample branch
 Committer: manikumarsimpli <manikumarsimpli@ip-172-31-71-23.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
          git config --global --edit
After doing this, you may fix the identity used for this commit with:
          git commit --amend --reset-author
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 index1.html
```

Step 3: Switch back to the main branch

3.1 Use the following command to switch back to the main branch:

ait checkout new branch1

```
@ip-172-31-71-23:~/projectfile$ git checkout new_branch1
Switched to branch 'new_branch1'
Your branch is up to date with 'origin/main'.

### 1001-172-31-71-23:~/projectfile$
```

Step 4: Merge the branches

4.1 Use the following command to merge the sample branch to the main branch:



git merge sample_branch

```
Updating d77a2b5..67ded56
Fast-forward
index1.html | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index1.html

dip=172-31-71-23:~/projectfile$
```

Step 5: Push the changes to the remote repository

5.1 Use the following command to push the new_branch1 to the remote repository:

git push -u origin new_branch1

```
@ip-172-31-71-23:~/projectfile$ git push -u origin new branch1
Username for 'https://github.com': Simplilearn-Edu
Password for 'https://Simplilearn-Edu@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 310.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'new branch1' on GitHub by visiting:
remote:
            https://github.com/Simplilearn-Edu/projectfile/pull/new/new branch1
remote:
To https://github.com/Simplilearn-Edu/projectfile.git
* [new branch] new branch1 -> new branch1
Branch 'new branch1' set up to track remote branch 'new branch1' from 'origin'.
image: @ip-172-31-71-23:~/projectfile$
```

5.2 Go to the remote repository to check whether the branch is updated



