

Lesson 05 Demo 05

Switching Branches in GitHub

Objective: To switch between branches in Git for an organized development and maintenance of code repository

Tools required: Git

Prerequisites: None

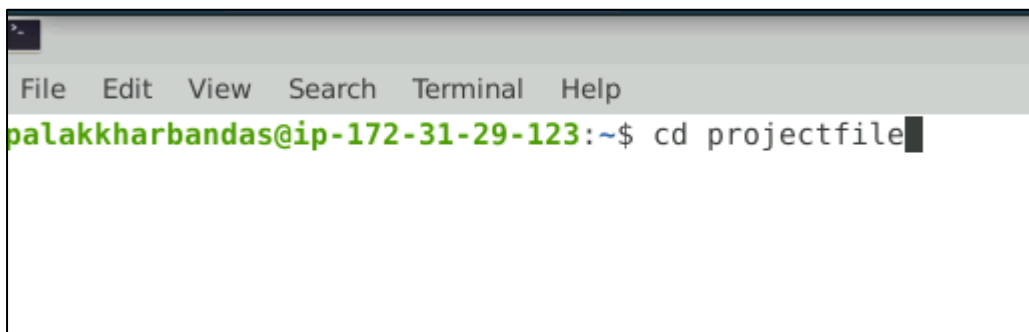
Steps to be followed:

1. Create a new branch and switch to the new branch
2. Create a file and commit the changes
3. Check the status of the new branch and switch back to the main branch

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

Step 1: Create a new branch and switch to new branch

- 1.1 Open the terminal in your lab and navigate to the **projectfile** folder
cd projectfile



```
File Edit View Search Terminal Help
palakkharbandas@ip-172-31-29-123:~$ cd projectfile
```

1.2 Execute the following command to create a new branch:

git branch text_branch

```
root@ip-172-31-71-23:~/projectfile$ git branch text_branch
root@ip-172-31-71-23:~/projectfile$
```

1.3 Switch to the new branch and check the current branch using the following commands:

git checkout text_branch

git branch

```
root@ip-172-31-71-23:~/projectfile$ git checkout text_branch
Switched to branch 'text_branch'
root@ip-172-31-71-23:~/projectfile$ git branch
  new_branch1
* text_branch
root@ip-172-31-71-23:~/projectfile$
```

Step 2: Create a file and commit the changes

2.1 Use the following command to create a file:

vi index.html

```
root@ip-172-31-71-23:~/projectfile$ vi index.html
root@ip-172-31-71-23:~/projectfile$
```

2.2 Add the following code snippet in the **index.html** file

```
<html>
  <body>
    <p> This is a Test HTML file. </p>
  </body>
</html>
```

```
<html>
  <body>
    <p> This is a Test HTML file. </p>
  </body>
</html>
```

Note: Press **Esc** button and enter **:wq** to save the file

2.3 Use the following commands to add the file **index.html** to the **text_branch** and commit the changes:

git add index.html

git commit -a -m "file modified"

```
manikumar.simpli@ip-172-31-71-23:~/projectfile$ git add index.html
manikumar.simpli@ip-172-31-71-23:~/projectfile$ git commit -a -m "file modified"
[text_branch 6d8f9e8] file modified
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, 11 insertions(+)
create mode 100644 index.html
manikumar.simpli@ip-172-31-71-23:~/projectfile$
```

Step 3: Check the status of the new branch and switch back to the main branch

3.1 Check the status of the new branch using the following command:

git status

```
manikam@simplilearn:~/projectfile$ git status
On branch text_branch
nothing to commit, working tree clean
manikam@simplilearn:~/projectfile$
```

3.2 Check the current branch and switch to the required branch using the following commands:

git branch

git checkout new_branch1

```
manikam@simplilearn:~/projectfile$ git branch
new_branch1
* text_branch
manikam@simplilearn:~/projectfile$ git checkout new_branch1
Switched to branch 'new_branch1'
Your branch is up to date with 'origin/main'.
manikam@simplilearn:~/projectfile$
```

By following these steps, you have seamlessly switch between branches in GitHub for organized and efficient development, collaboration, testing, and maintenance of code repositories.