

## Module 3: Git and Jenkins

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### Demo Document - 1

edureka!

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## Demo – 1: Branching and Merging

- To create a new branch from your current branch  
Syntax: `git branch <branchname>`

```
edureka@kmaster:~/demo$ git branch feat1
edureka@kmaster:~/demo$
```

- You can then switch to this newly created branch  
Syntax: `git checkout <branchname>`

```
edureka@kmaster:~/demo$ git checkout feat1
Switched to branch 'feat1'
edureka@kmaster:~/demo$
```

- Creating and switching to a new branch can be done by using the **-b flag**  
Syntax: `git checkout -b <branchname>`

```
edureka@kmaster:~/demo$ git checkout -b feat1
Switched to a new branch 'feat1'
edureka@kmaster:~/demo$
```

- **Branch** command lists all the branches and also points to the current working branch  
Syntax: `git branch`

```
edureka@kmaster:~/demo$ git branch
* feat1
  master
edureka@kmaster:~/demo$
```

- Different modified branches can be **merged** together using merge  
Syntax: `git merge <branchname>`
- The branch mentioned is merged into the current branch

```
edureka@kmaster:~/demo$ git merge feat1
Updating 0738e44..7804861
Fast-forward
 Demo.java      | 6 ++++++
 Demo3.java     | 0
 NewDemo.java   | 6 -----
 NewFile.java   | 0
 4 files changed, 6 insertions(+), 6 deletions(-)
 create mode 100644 Demo.java
 create mode 100644 Demo3.java
 create mode 100644 NewFile.java
edureka@kmaster:~/demo$
```

- **Merged** branches can be deleted using the **-d** flag  
Syntax: `git branch -d <branchname>`

```
edureka@kmaster:~/demo$ git branch -d feat1
Deleted branch feat1 (was 0738e44).
edureka@kmaster:~/demo$
```

- **Unmerged** branches can be deleted using the **-D** flag  
Syntax: `git branch -D <branchname>`

```
edureka@kmaster:~/demo$ git branch -D feat1
Deleted branch feat1 (was 7804861).
edureka@kmaster:~/demo$
```