

Module 3: Git, Jenkins and Maven Integration

Demo Document - 1

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Demo – 1: Branching and Merging

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

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git branch feat1
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

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

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git checkout feat1
Switched to branch 'feat1'
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

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

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git checkout -b feat1
Switched to a new branch 'feat1'
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

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

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git branch
* feat1
  master
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

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

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git merge feat1
Updating 96d29b0..0ebb201
Fast-forward
 Demo2.java | 1 +
 1 file changed, 1 insertion(+)
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

- **Merged** branches can be deleted using **-d** flag

Syntax: `git branch -d <branchname>`

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git branch -d feat1
Deleted branch feat1 (was 0ebb201).
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

- **Unmerged** branches can be deleted using **-D** flag

Syntax: `git branch -D <branchname>`

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git branch -D feat1
Deleted branch feat1 (was fb0ba99).
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```