**Objectives**

* **Explain branching and merging**
* **Explain about creating a branch request in GitLab**
* **Explain about creating a merge request in GitLab**

**In this hands-on lab, you will learn how to:**

* **Construct a branch, do some changes in the branch, and merge it with master (or trunk)**

**Prerequisites**

**The following are the pre-requisites to complete this hands-on lab:**

* **Setting up Git environment with P4Merge tool for Windows**

**-----------------**| This is a new file in GitNewBranch |**~** PRIYADARSNI@LAPTOP-L02QOMV0 MINGW64 ~/GitDemo (master)$ git config --global diff.tool p4merge

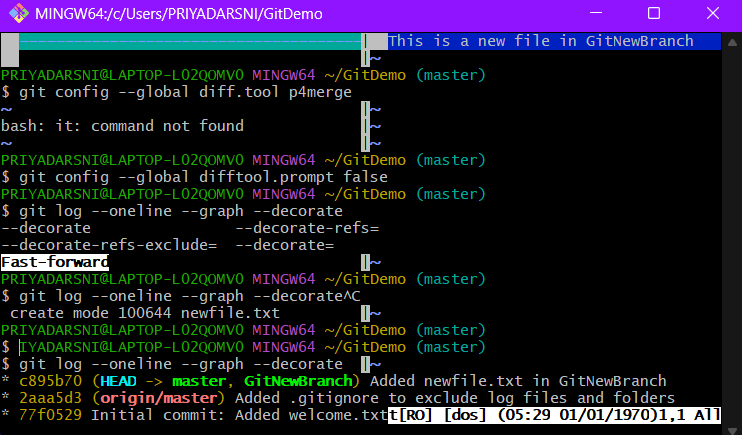
**~** |**~** bash: it: command not found|**~ ~** |**~** PRIYADARSNI@LAPTOP-L02QOMV0 MINGW64 ~/GitDemo (master)$ git config --global difftool.prompt false

PRIYADARSNI@LAPTOP-L02QOMV0 MINGW64 ~/GitDemo (master)$ git log --oneline --graph --decorate

--decorate --decorate-refs=

--decorate-refs-exclude= --decorate=  **Fast-forward** |**~** PRIYADARSNI@LAPTOP-L02QOMV0 MINGW64 ~/GitDemo (master)$ git log --oneline --graph --decorate

create mode 100644 newfile.txt|**~ ~** |**~** PRIYADARSNI@LAPTOP-L02QOMV0 MINGW64 ~/GitDemo (master)$ git log --oneline --graph --decorate|**~** \* c895b70 (**HEAD** -> **master**, **GitNewBranch**) Added newfile.txt in GitNewBranch\* 2aaa5d3 (**origin/master**) Added .gitignore to exclude log files and folders\* 77f0529 Initial commit: Added welcome.txt**t[RO] [dos] (05:29 01/01/1970)1,1 All**

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