Notes\*:

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| --- |
| Please follow the below steps for creating a free account in GitHub.  Do not use cognizant credentials to login to GitHub. |

Estimated time to complete this lab: **30 minutes.**

Please follow the instruction to complete the hands-on. Each instruction expects a command for the Git Bash.

**Branching:**

1. Create a new branch **“GitNewBranch”.**
2. List all the local and remote branches available in the current trunk. Observe the “\*” mark which denote the current pointing branch.
3. Switch to the newly created branch. Add some files to it with some contents.
4. Commit the changes to the branch.
5. Check the status with **“git status”** command.

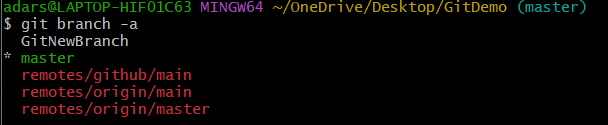
**Merging:**

1. Switch to the master
2. List out all the differences between trunk and branch. These provide the differences in command line interface.
3. List out all the visual differences between master and branch using **P4Merge tool**.
4. Merge the source branch to the trunk.
5. Observe the logging after merging using **“git log –oneline –graph –decorate”**
6. Delete the branch after merging with the trunk and observe the git status.

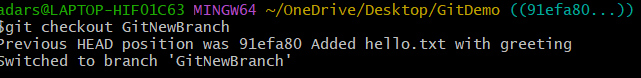
CODE:

git branch GitNewBranch

git branch -a

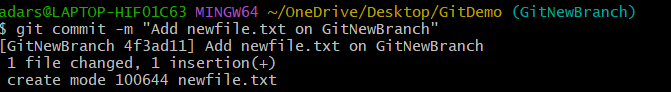


git checkout GitNewBranch

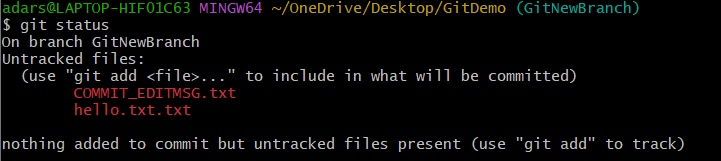


echo "This is a new file on GitNewBranch" > newfile.txt

git add newfile.txt  
  
git commit -m "Add newfile.txt on GitNewBranch"



git status



Merge:  
Commands  
1 git checkout master

2 git diff master..GitNewBranch

3 git difftool master..GitNewBranch

4 git merge GitNewBranch

5 git log --oneline --graph –decorate

6 git branch -d GitNewBranch

7 git status

