

## GIT HANDS ON – 3

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### 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.

```
MINGW64/c/Users/DCS/jignesh/Demo1
DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (master)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git branch
* GitNewBranch
  master

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git checkout GitNewBranch
Already on 'GitNewBranch'

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ echo "My name is jignesh">>name.txt

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git add name.txt
warning: in the working copy of 'name.txt', LF will be replaced by CRLF the next
time Git touches it

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git push --set-upstream origin GitNewBranch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'GitNewBranch' on GitHub by visiting:
remote:   https://github.com/jigneshsadu/Demo1/pull/new/GitNewBranch
remote:
To https://github.com/jigneshsadu/Demo1.git
 * [new branch]      GitNewBranch -> GitNewBranch
branch 'GitNewBranch' set up to track 'origin/GitNewBranch'.

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git status
On branch GitNewBranch
Your branch is up to date with 'origin/GitNewBranch'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   name.txt

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git commit -m "commit"
[GitNewBranch 8ef518c] commit
1 file changed, 1 insertion(+)
create mode 100644 name.txt

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
```

```
DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git commit -m "commit"
[GitNewBranch 8ef518c] commit
1 file changed, 1 insertion(+)
create mode 100644 name.txt

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git status
On branch GitNewBranch
Your branch is ahead of 'origin/GitNewBranch' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

DCSRDESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ |
```

### 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.

```
DCS@DESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (GitNewBranch)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

DCS@DESKTOP-6JGLGTS MINGW64 ~/jignesh/Demo1 (master)
$ git diff --name-status master GitNewBranch
A       name.txt
```

```
PCSRDESKTOP-63JLGT5 MINGW64 ~/jignesh/Demo1 (master)
$ git log --oneline --graph --decorate
* b3a84cb (HEAD --> master, origin/master, origin/HEAD, origin/GitNewBranch) Initial commit

PCSRDESKTOP-63JLGT5 MINGW64 ~/jignesh/Demo1 (master)
$ git branch -D GitNewBranch
Deleted branch GitNewBranch (was 8ef518c).

PCSRDESKTOP-63JLGT5 MINGW64 ~/jignesh/Demo1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

PCSRDESKTOP-63JLGT5 MINGW64 ~/jignesh/Demo1 (master)
$ |
```