**3.** **Git-HOL Hands On Assignment Notes**

## Branching

### 1. Create a new branch “GitNewBranch” and switch to it

git checkout -b GitNewBranch

### 2. List all local & remote branches

git branch -a

### 3. Add files and make changes

echo "My first branch file" > branchfile.txt

git add branchfile.txt

git commit -m "Added branchfile.txt with sample content"

### 4. Check branch status

git status

## Merging

### 1. Switch to master branch

git checkout master

### 2. See differences between master and GitNewBranch

git diff master GitNewBranch

### 3. Merge the branch into master

git merge GitNewBranch

### 4. Observe commit history graph

git log --oneline --graph --decorate --all

### 5. Delete the branch after merge

git branch -d GitNewBranch

## Pushing to GitHub / GitLab

* Push new branch to remote:

git push origin GitNewBranch

* On **GitLab/GitHub UI we will** see:
  + A prompt to create a **Merge Request (GitLab)** or **Pull Request (GitHub)**.
* Create a **Merge Request** in GitLab:
  + Go to your project -> **Merge Requests -> New Merge Request**
  + Select GitNewBranch -> master
  + Add title, description -> click **Create merge request**