**Step 1: Setup Prerequisites**  
**Description:**

* Git is already installed and configured with username and email
* P4Merge tool is available for visual merge comparisons
* Local Git repository linked with a remote GitLab repository

**Step 2: Branching**

**2.1 Create a New Branch**

git branch FeatureUpdate

**2.2 List All Branches**

git branch -a

* The branch with the \* symbol is the one you are currently on.

**2.3 Switch to the New Branch**

git checkout FeatureUpdate

**2.4 Add Files and Content**

echo "New functionality implemented" > update.txt

git add update.txt

**2.5 Commit Changes**

git commit -m "Added update.txt in FeatureUpdate branch"

**2.6 Check Branch Status**

git status

**Step 3: Merging**

**3.1 Switch to Master Branch**

git checkout master

**3.2 Compare Differences in CLI**

git diff master FeatureUpdate

**3.3 View Differences with P4Merge**

git mergetool

**3.4 Merge the Feature Branch into Master**

git merge FeatureUpdate

**3.5 Display Merge Log**

git log --oneline --graph --decorate

**3.6 Remove the Merged Branch**

git branch -d FeatureUpdate

**3.7 Verify Status After Merge**

git status

**Step 4: Creating a Branch Request in GitLab**

1. Push the branch to the remote repository:

git push origin FeatureUpdate

1. Navigate in GitLab: **Project → Repository → Branches**
2. Click **New Merge Request** to merge FeatureUpdate into master.

**Step 5: Creating a Merge Request in GitLab**

* Provide a title and short description for the merge request
* Assign reviewers if needed
* Click **Create Merge Request**
* Once approved, select **Merge**