1. Setup a remote repository in Local , Add a file and commit or save the changes and push to master branch.

mkdir my\_project

cd my\_project

git init

Create a new file

Create a repository on a Git

git remote add origin https://github.com/username/my\_project.git

git add .

git commit -m "Add "

1. Create a new branch then commit and push the changes to new branch and merge it with the master branch using pull request.

git checkout -b new\_feature

Create a new file

git add .

git commit -m "Add "

git commit -m "Add feature.txt with new feature text"

* Create a Pull Request

Go to your repository on the hosting service (GitHub, GitLab, Bitbucket, etc.).

Navigate to the "Pull Requests" tab.

Click "New Pull Request".

Select your new branch (new\_feature) as the source branch and master as the target branch.

Create the pull request by filling out any required information and clicking "Create Pull Request".

* Merge the Pull Request

Review the pull request on the hosting service.

If the pull request is approved and there are no conflicts, merge the pull request by clicking "Merge Pull Request".

1. Undo the last commit or remove the last created file from remote repo using CLI

git reset --soft HEAD~1

git reset --hard HEAD~1

git rm feature.txt

git commit -m "Remove"

git push -f origin new\_feature

1. Resolve a merge conflicts

Step 1: Simulate a Merge Conflict

git checkout -b feature\_branch

echo "Feature branch changes" > conflicting\_file.txt

git add conflicting\_file.txt

git commit -m "Feature branch commit"

git checkout master

echo "Master branch changes" > conflicting\_file.txt

git add conflicting\_file.txt

git commit -m "Master branch commit"

git merge feature\_branch

Step 2: Identify the Conflict

(Git notifies you of the conflict)

Step 3: Resolve the Conflict

(Open, edit, and save conflicting\_file.txt)

Step 4: Finalize the Merge

git add conflicting\_file.txt

git commit -m "Resolve merge conflict in conflicting\_file.txt"

Step 5: Push the Changes

git push origin master