MODULE -1

Managing Source Code – Git and GitHub

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L2 - Create Local git repository and demonstrate
git merge and Merge Conflicts with the steps to
resolve merge conflicts

Step 1:initalize the Git by using git init command

Step 2: Check the Branches using the Git branch command

Step 3: Now create a file in branch 1,by suing vi or touch command

Step 4:Write some content in that file

Step 5:Now create a new branch ,by explicitly all the files from main branch will be copied to new branch. ,the branch will be created using git checkout -b <new branch name>

Step 6: now edit the file which is created in main branch and save it and add it and commit it.

```
the is branch one  file
```

```
b1.txt [dos] (21:06 31/03/2025)                                                    1,12 All
"b1.txt" [dos] 1L, 25B
```
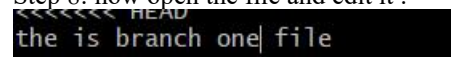
Step 7:Switch to main branch

```
sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (new)
$ git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged,
and have 5 and 1 different commits each, respectively.
  (use "git pull" if you want to integrate the remote branch with yours)

sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (main)
$ ls
a1.txt  b1.txt  git-01.pdf

sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (main)
$
```
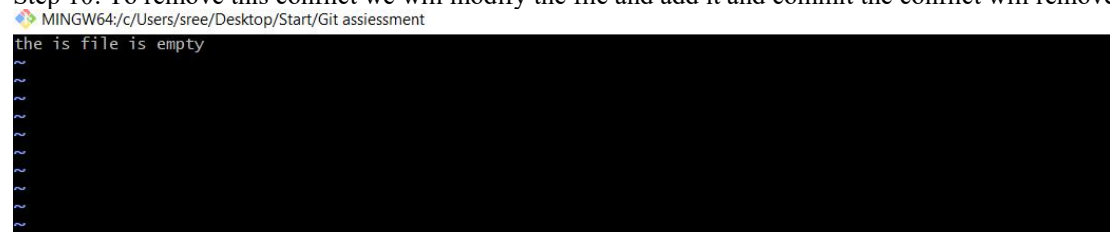
Step 8: now open the file and edit it .

```
<<<<<<< HEAD
the is branch one| file
```

Step 9:now merge it ,with new branch you will see the conflicts

```
gi
sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (main)
$ git merge new
Auto-merging b1.txt
CONFLICT (content): Merge conflict in b1.txt
Automatic merge failed; fix conflicts and then commit the result.
```

Step 10: To remove this conflict we will modify the file and add it and commit the conflict will remove.

```
MINGW64:/c/Users/sree/Desktop/Start/Git assiessment
the is file is empty
~
~
~
~
~
~
~
~
~
```

```
sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (main)
$ git merge new
Already up to date.

sree@DESKTOP-URR5HER MINGW64 ~/Desktop/Start/Git assiessment (main)
$
```