

### **Assignment 3**:-Feature Branches and Hotfixes

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

#### **Solution:-**

##### **1. Create and switch to the 'hotfix' branch:-**

Command:- git checkout -b hotfix main

This command creates a new branch named 'hotfix' based on the 'main' branch and switches to it.

##### **2. Fix the issue:-**

Make the necessary changes to fix the issue in the code.

##### **3. Add and commit the changes:-**

Command:- git add . # Adds all changes to the staging area  
git commit -m "Fixed issue XYZ"  
# Commits the changes with a descriptive message

##### **4. Switch back to the 'main' branch:-**

Command:- git checkout main

##### **5. Merge the 'hotfix' branch into 'main':-**

Command:- git merge hotfix

This command merges the changes from the 'hotfix' branch into the 'main' branch

##### **6. Resolve any merge conflicts:-**

If there are any merge conflicts, resolve them in your code and then commit the changes.

##### **7. Push the changes to the remote repository:-**

Command:- git push origin main

This command pushes the changes in the 'main' branch (including the hotfix) to the remote repository.