***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.*

***Step 1: Create a 'main' branch (if not already created)***

*Assuming you're currently on the 'master' branch, rename it to 'main':*

*Bash*

*git branch -m master main*

***Step 2: Introduce an issue in the 'main' branch***

***Open hello.txt and intentionally introduce an error:***

*Hello, World!*

*This is the feature branch.*

*Error: This line has a typo.*

***Step 3: Create a 'hotfix' branch***

***Create a new branch 'hotfix' from the 'main' branch:***

*Bash*

*git checkout main*

*git branch hotfix*

*git checkout hotfix*

***Alternatively, use:***

*Bash*

*git checkout -b hotfix main*

***Step 4: Fix the issue in the 'hotfix' branch***

***Open hello.txt and fix the typo:***

*Hello, World!*

*This is the feature branch.*

***Step 5: Commit the fix***

***Stage and commit the changes:***

*Bash*

*git add hello.txt*

*git commit -m "Hotfix: Fixed typo in hello.txt"*

***Step 6: Switch to the 'main' branch***

*Bash*

*git checkout main*

***Step 7: Merge the 'hotfix' branch into 'main'***

***Merge the 'hotfix' branch into 'main':***

*Bash*

*git merge hotfix*

***Step 8: Verify the fix***

*Open hello.txt to ensure the typo is fixed.*

***Step 9: Delete the 'hotfix' branch (optional)***

***If you no longer need the 'hotfix' branch:***

*Bash*

*git branch -d hotfix*