

**Git-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.

### SCRIPT

**# Navigate to your Git repository**

```
cd /path/to/your/directory
```

**# Ensure you are on the main branch**

```
git checkout main
```

**# Create a new branch named 'hotfix'**

```
git branch hotfix
```

**# Switch to the 'hotfix' branch**

```
git checkout hotfix
```

**# Make the necessary fixes**

```
echo "This is a hotfix in the hotfix branch." >> simple.txt
```

**# Add the changes to the repository**

```
git add simple.txt
```

**# Commit the changes**

```
git commit -m "Apply hotfix to resolve issue"
```

**# Switch back to the main branch**

```
git checkout main
```

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

```
git merge hotfix
```

**# (Optional) Delete the 'hotfix' branch**

```
git branch -d hotfix
```

### Output:

1. **Switch to the Main Branch:** Switched to branch 'main'
2. **Create a New Branch Named 'Hotfix':** (No output for the git branch command)
3. **Switch to the 'Hotfix' Branch:** Switched to branch 'hotfix'
4. **Make the Necessary Fixes:** (No output for the echo command)
5. **Add the Changes to the Repository:** (No output for the git add command)

## 6. Commit the Changes:

[hotfix 2a3b4c5] Apply hotfix to resolve issue

1 file changed, 1 insertion(+)

## 7. Switch Back to the Main Branch: Switched to branch 'main'

## 8. Merge the 'Hotfix' Branch into 'Main':

Updating 1a2b3c4..2a3b4c5

Fast-forward

simple.txt | 1 +

1 file changed, 1 insertion(+)

## 9. (Optional) Delete the 'Hotfix' Branch:

Deleted branch hotfix (was 2a3b4c5).