**Problem Statement**

You work for Zendrix Software & Co. You have been assigned the task of updating the Master branch of their Git repository with all the features from the feature branches.

Following is the GitHub account, https://github.com/devops-intellipaat/merge-conflict.git

Consider,

• Feature1 branch to be a public branch

• Feature2 branch to be a private branch

The company relies on a monolithic architecture, and for now all the code resides in one file main.c. The respective features have been added in the feature branches for main.c. Meanwhile, a security patch was made to the master branch, and now feature1 and feature2 branches are behind from master by 1 commit.

**Following tasks have to be done:**

1. Update Feature1 and Feature2 branch with the Security Patch

2. Apply changes of Feature1 and Feature2 branch on master

3. Finally push all the branches to GitHub

For Solving this, please fork the repository to your Github account and then work.

**Solution Approach**

Repository forked: <https://github.com/vyombhatt/merge-conflict.git>

**Step 1: Clone the Forked Repository Locally**

1. git clone https://github.com/vyombhatt/merge-conflict.git

2. cd merge-conflict

**Step 2: Update feature1 and feature2 Branches with the Security Patch**

1. **Switch to feature1 branch** and merge master into it:

1. git checkout feature1

2. git merge master

Resolve all merge conflicts in main.c as prompted in VS Code

1. git add main.c

2. git commit -m "Merge master into feature1 branch"

1. **Switch to feature2 branch** and merge master into it:

1. git checkout feature2

2. git merge master

Resolve all merge conflicts in main.c as prompted in VS Code

1. git add main.c

2. git commit -m "Merge master into feature2 branch"

**Step 3: Merge feature1 and feature2 into master**

1. git checkout master

2. git merge feature1

3. git add main.c

4. git commit -m "Merge feature1 into master"

1. git merge feature2

2. git add main.c

3. git commit -m "Merge feature2 into master"

**Step 4: Push All Changes to GitHub**

1. git push origin master

2. git push origin feature1

3. git push origin feature2

**GitHub Repository Link:**

Final GitHub Repository Link:

<https://github.com/vyombhatt/merge-conflict.git>