**Resolve Merge Conflict:**

 **Clone the Repository:**

* First, clone your repository to your local machine if you haven't already:

git clone https://github.com/your-username/your-repo.git

cd your-repo

 **Create a New Branch:**

* Create a new branch and switch to it:

git status

git checkout -b feature-branch

git status

 **Modify README.md in the Feature Branch:**

* Open README.md and make some changes.
* For example, add a new line:

"This is a change in the feature branch.”

* Save the changes and commit them:

git status

git add README.md

git status

git commit -m "Updated README.md in feature branch"

git status

 **Push the Feature Branch to GitHub:**

* Push your changes to the remote repository:

git status

git push origin feature-branch

git status

 **Switch Back to Main Branch:**

* Switch back to the main branch:

git checkout main

git status

 **Modify README.md in the Main Branch:**

* Open README.md and make conflicting changes.
* For example, add a different new line:

This is a change in the main branch.

* Save the changes and commit them:

git status

git add README.md

git status

git commit -m "Updated README.md in main branch"

 **Push the Main Branch Changes:**

* Push your changes to the remote repository:

git status

git push origin main

git status

 **Create a Pull Request:**

* Go to your GitHub repository on the web.
* Create a pull request to merge feature-branch into main.

 **Observe the Merge Conflict:**

* GitHub will detect the conflict and notify you that the branch has conflicts that must be resolved.

 **Resolve the Conflict:**

* You can resolve the conflict either on GitHub or locally:
  + **On GitHub:**
    - Click on "Resolve conflicts" on the pull request page and manually resolve the differences.