Git Assignment Submission

# 1. Stage and Commit All Changes

To stage all the changes and commit them with a meaningful message:  
  
git add .  
git commit -m "Your meaningful commit message here"

# 2. Move Commits to the Correct Branch

If you committed to the wrong branch by mistake:  
  
git checkout -b temp-branch  
git checkout correct-branch  
git merge temp-branch  
git branch -d temp-branch

# 3. Create New Branch, Make Changes, and Push

Steps to create a new branch, commit changes, and push it to GitHub:  
  
git checkout -b feature-branch  
git add .  
git commit -m "Add feature implementation"  
git push -u origin feature-branch

# 4. Contribute to Open Source on GitHub

Steps to fork, make changes, and create a pull request:  
1. Fork the repository on GitHub  
2. Clone your fork: git clone https://github.com/your-username/project-name.git  
3. cd project-name  
4. git checkout -b fix-bug-or-add-feature  
5. Make changes, then: git add . && git commit -m "Describe your changes"  
6. git push origin fix-bug-or-add-feature  
7. Create a pull request on GitHub

# 5. Resolve Merge Conflicts

If there are conflicts between your branch and main:  
  
git checkout your-branch  
git merge main  
  
Resolve conflicts manually, then:  
git add .  
git commit

# 6. Create Feature Branch from Latest Main

To ensure your new branch is up-to-date with the latest main:  
  
git checkout main  
git pull origin main  
git checkout -b feature-branch

# 7. Revert to a Specific Commit

To discard all commits after a specific one:  
  
git reset --hard <commit-hash>

# 8. Restore a Deleted File

If you deleted a file and committed the change, to restore it:  
  
git checkout HEAD^ -- path/to/deleted-file  
git add path/to/deleted-file  
git commit -m "Restore accidentally deleted file"