

Git Assignment 3 : Feature Development with Merge Conflict

Scenario:

Two developers work on the same feature but update the same line of code in config.json.
You must handle the conflict when merging.

Output Commands :

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64 ~  
$ cd D:\\DevOPs\\Git-Assignment
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64 /d/DevOPs/Git-Assignment (payment-gateway)  
$ code .
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64 /d/DevOPs/Git-Assignment (payment-gateway)  
$ git branch
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64 /d/DevOPs/Git-Assignment (payment-gateway)  
$ ls  
Git-Assignment1-repo/
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64 /d/DevOPs/Git-Assignment (payment-gateway)  
$ cd Git-Assignment1-repo/
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64  
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)  
$ git branch  
develop  
hotfix  
main  
* payment-gateway
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64  
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)  
$ code .
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64  
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)  
$ code .
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64  
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)  
$ git status
```

On branch payment-gateway

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

(commit or discard the untracked or modified content in submodules)

modified: Git-Assignment1-repo (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

Faizan Khan@DESKTOP-PJNPHFL MINGW64

/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)

\$ git add .

Faizan Khan@DESKTOP-PJNPHFL MINGW64

/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)

\$ git status

On branch payment-gateway

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

(commit or discard the untracked or modified content in submodules)

modified: Git-Assignment1-repo (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

Faizan Khan@DESKTOP-PJNPHFL MINGW64

/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)

\$ git branch

develop

hotfix

main

* payment-gateway

Faizan Khan@DESKTOP-PJNPHFL MINGW64

/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)

\$ git restore .

Faizan Khan@DESKTOP-PJNPHFL MINGW64

/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)

\$ git status

On branch payment-gateway

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

(commit or discard the untracked or modified content in submodules)
modified: Git-Assignment1-repo (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git commit -m "successfully restored"
On branch payment-gateway
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
  (commit or discard the untracked or modified content in submodules)
    modified:   Git-Assignment1-repo (untracked content)
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ code .
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git status
On branch payment-gateway
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
  (commit or discard the untracked or modified content in submodules)
    modified:   Git-Assignment1-repo (untracked content)
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git restore Git-Assignment1-repo
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git status
On branch payment-gateway
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
```

(commit or discard the untracked or modified content in submodules)
modified: Git-Assignment1-repo (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git branch
  develop
  hotfix
  main
* payment-gateway
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git status
On branch payment-gateway
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
  (commit or discard the untracked or modified content in submodules)
    modified:   Git-Assignment1-repo (untracked content)
```

```
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    config.json
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git add .
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git commit -m "Added the config.json file"
[payment-gateway 642f0d1] Added the config.json file
 1 file changed, 1 insertion(+)
 create mode 100644 config.json
```

```
Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (payment-gateway)
$ git switch main
M    Git-Assignment1-repo
```

Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ ls
Git-Assignment1-repo/ README.md

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ code .

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
(commit or discard the untracked or modified content in submodules)
modified: Git-Assignment1-repo (untracked content)

Untracked files:
(use "git add <file>..." to include in what will be committed)
config.json

no changes added to commit (use "git add" and/or "git commit -a")

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ git add .

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ git commit -m "Added config.json in main successfully"
[main 68d49d3] Added config.json in main successfully
1 file changed, 3 insertions(+)
create mode 100644 config.json

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ git merge payment-gateway

Auto-merging config.json
CONFLICT (add/add): Merge conflict in config.json
Automatic merge failed; fix conflicts and then commit the result.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main|MERGING)
\$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

You have unmerged paths.
(fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)

Unmerged paths:
(use "git add <file>..." to mark resolution)
both added: config.json

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
(commit or discard the untracked or modified content in submodules)
modified: Git-Assignment1-repo (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main|MERGING)
\$ git add .

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main|MERGING)
\$ git commit -m "Merged both the file successfully "
[main bb385ca] Merged both the file successfully

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$ git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (9/9), 822 bytes | 822.00 KiB/s, done.

Total 9 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/Mehboob7738/Git-Assignment1-repo.git
81a3859..bb385ca main -> main

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
\$

The screenshot shows the GitHub repository page for 'Mehboob7738 / Git-Assignment1-repo'. The repository is public and has 2 branches and 0 tags. The main branch is selected. The repository contains three files: 'Git-Assignment1-repo' (added hotfix in app.js, 16 hours ago), 'README.md' (This is my first commit, 17 hours ago), and 'config.json' (Merged both the file successfully, 1 minute ago). The README file is open, showing the title 'Git-Assignment1-repo' and the content 'This is my first Git-assignment Today is tuesday'. The right sidebar shows the repository's activity, including 0 stars, 0 watching, and 0 forks. The 'Releases' section shows no releases published, and the 'Packages' section shows no packages published.

Mehboob7738 / Git-Assignment1-repo

main 2 Branches 0 Tags

Go to file Add file Code

Mehboob7738 Merged both the file successfully bb385ca · 1 minute ago 6 Commits

Git-Assignment1-repo	added hotfix in app.js	16 hours ago
README.md	This is my first commit	17 hours ago
config.json	Merged both the file successfully	1 minute ago

README

Git-Assignment1-repo

This is my first Git-assignment Today is tuesday

This is the first assignment

- Readme
- Activity
- 0 stars
- 0 watching
- 0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)