**Git Assignment 2 : Hotfix on Production Branch**

Scenario:
A bug is reported in production. You need to fix it urgently without disrupting ongoing feature development.

Output Commands:

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ git clone https://github.com/Mehboob7738/Git-Assignment1-repo.git
Cloning into 'Git-Assignment1-repo'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ git checkout -b main
fatal: a branch named 'main' already exists

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ git checkout -b hotfix
Switched to a new branch 'hotfix'

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

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

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git status
On branch hotfix
Untracked files:

(use "git add <file>..." to include in what will be committed)
       Git-Assignment1-repo/

nothing added to commit but untracked files present (use "git add" to track)

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git add .
warning: adding embedded git repository: Git-Assignment1-repo
hint: You've added another git repository inside your current repository.
hint: Clones of the outer repository will not contain the contents of
hint: the embedded repository and will not know how to obtain it.
hint: If you meant to add a submodule, use:
hint:
hint:   git submodule add <url> Git-Assignment1-repo
hint:
hint: If you added this path by mistake, you can remove it from the
hint: index with:
hint:
hint:   git rm --cached Git-Assignment1-repo
hint:
hint: See "git help submodule" for more information.
hint: Disable this message with "git config advice.addEmbeddedRepo false"

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git commit -m "added hotfix in app.js"
[hotfix 81a3859] added hotfix in app.js
 1 file changed, 1 insertion(+)
 create mode 160000 Git-Assignment1-repo

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git push
fatal: The current branch hotfix has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin hotfix

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git push --set-upstream origin hotfix
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 286 bytes | 143.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:      https://github.com/Mehboob7738/Git-Assignment1-repo/pull/new/hotfix
remote:
To https://github.com/Mehboob7738/Git-Assignment1-repo.git
 * [new branch]      hotfix -> hotfix
branch 'hotfix' set up to track 'origin/hotfix'.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (hotfix)
$ git switch main
warning: unable to rmdir 'Git-Assignment1-repo': Directory not empty
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)
$ git merge hotfix main
Updating 51b7601..81a3859
Fast-forward
 Git-Assignment1-repo | 1 +
 1 file changed, 1 insertion(+)
 create mode 160000 Git-Assignment1-repo

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ ls -la
total 5
drwxr-xr-x 1 Faizan Khan 197121  0 Sep  9 17:39 ./
drwxr-xr-x 1 Faizan Khan 197121  0 Sep  9 17:02 ../
drwxr-xr-x 1 Faizan Khan 197121  0 Sep  9 18:02 .git/
drwxr-xr-x 1 Faizan Khan 197121  0 Sep  9 17:56 Git-Assignment1-repo/
-rw-r--r-- 1 Faizan Khan 197121 73 Sep  9 17:08 README.md

```
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)
$ git branch
  hotfix
* main

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Mehboob7738/Git-Assignment1-repo.git
   51b7601..81a3859  main -> main

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (main)
$ git checkout -b develop
Switched to a new branch 'develop'

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

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (develop)
$ git merge main develop
Already up to date.

Faizan Khan@DESKTOP-PJNPHFL MINGW64
/d/DevOPs/Git-Assignment/Git-Assignment1-repo (develop)
$ git merge develop main
Already up to date.

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

## Commit 81a3859

Mehboob7738 committed 10 minutes ago

added hotfix in app.js

main

1 parent 51b7601 commit 81a3859

1 file changed  +1 -0  lines changed

Git-Assignment1-repo

Filter files...

Git-Assignment1-repo

Git-Assignment1-repo                                                    +1 ▇▢▢▢▢ ...

```
      ...        @@ -0,0 +1 @@
       1         + Subproject commit 51b76011f8dd99fc031118f8dddc5b86b2b4fd53
```

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Mehboob7738 / Git-Assignment1-repo

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Mehboob7738 added hotfix in app.js                   81a3859 · 12 minutes ago   ⓘ 3 Commits

📁 Git-Assignment1-repo          added hotfix in app.js              12 minutes ago

📄 README.md                    This is my first commit             1 hour ago

📖 README

# Git-Assignment1-repo

This is my first Git-assignment Today is tuesday

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