Module 4: Git Workflows

Demo1: Demo on difference between git and git flow.

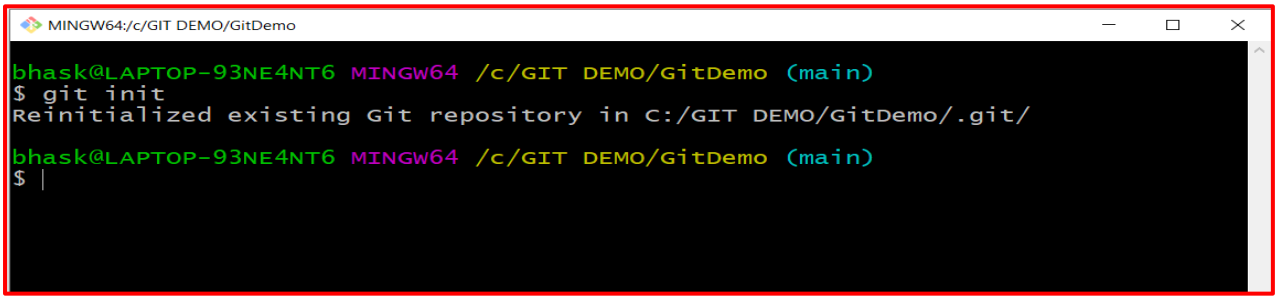
Problem Statement:

In this demo we will Show commands to see difference between git and git flow.

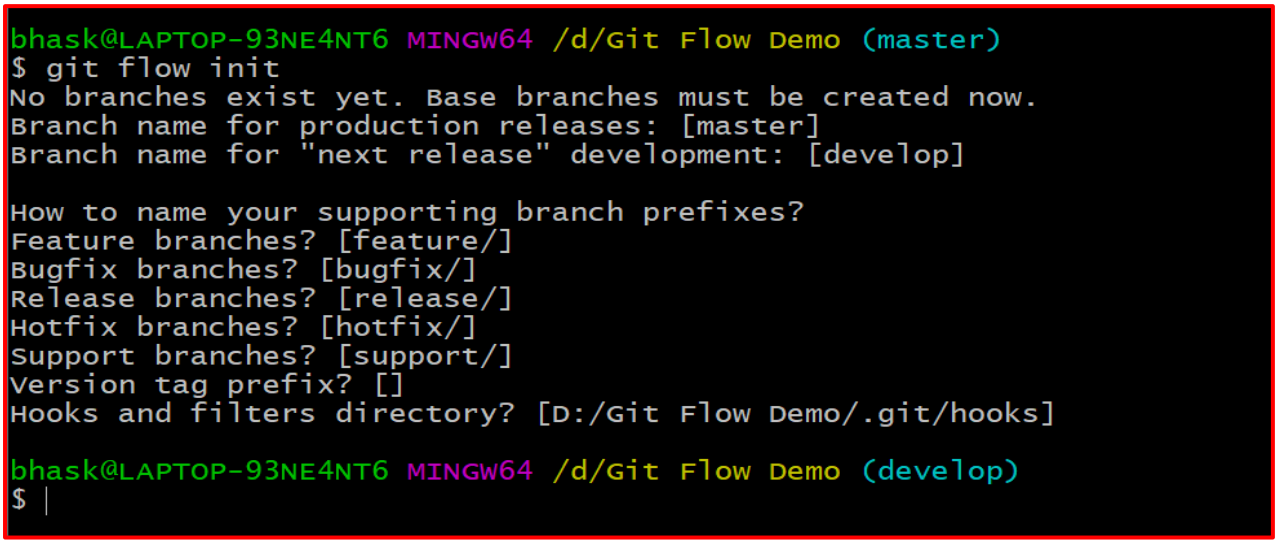
Solution Steps:

1. Initialize **'GIT BASH'** in two different directories, one for **'GIT'** and other for **'GIT FLOW'**.
   In **GIT** directory only you need to **CLONE** any **GITHUB** repository which you have created in previous module demo using **'GIT CLONE'** command. Now you will learn difference between **GIT** and **GIT FLOW** commands.

   GIT
   Command to initialize **GIT**:
   git init



   GIT FLOW
   Command to initialize **GIT FLOW**:
   git flow init

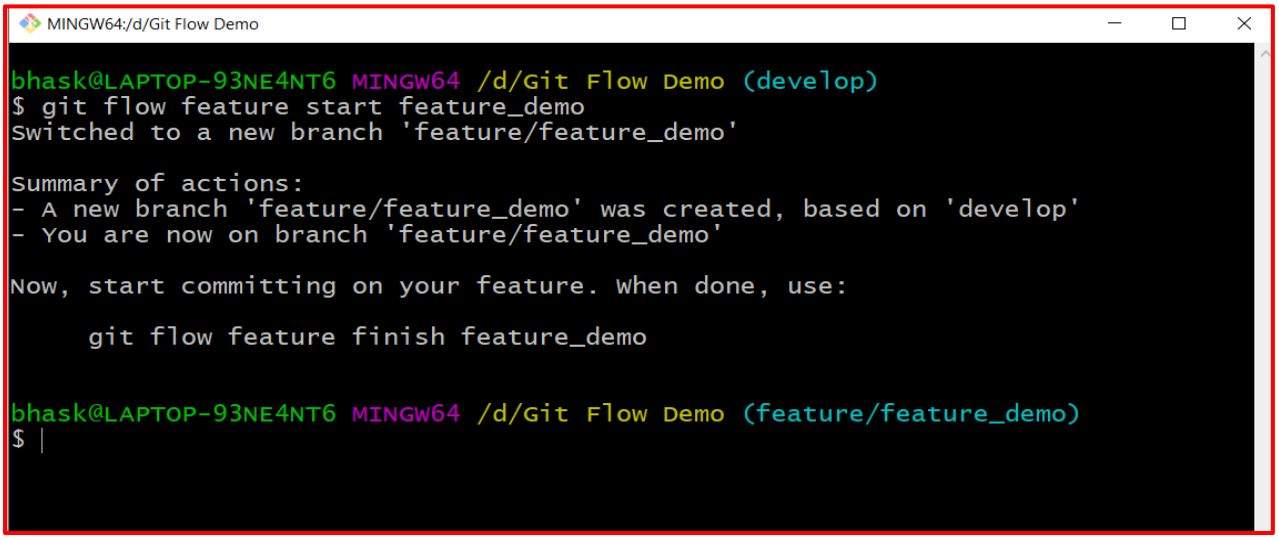


2. Command to create **FEATURE** branch.

GIT
git branch feature

Command to switch from **MAIN** branch to **FEATURE** branch in **GIT**:
git checkout feature

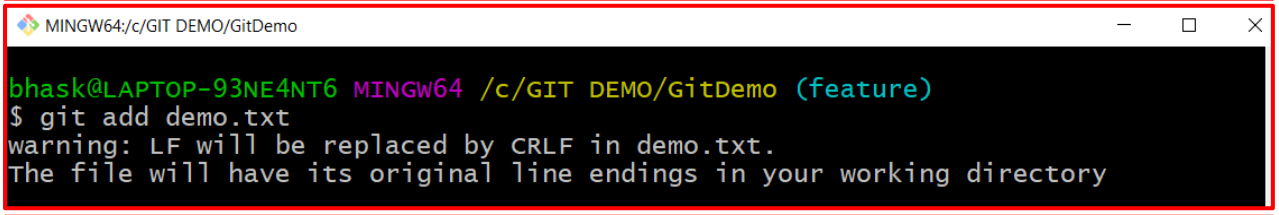
GITFLOW
Command to create and switch to **FEATURE** branch in **GIT FLOW**:
git flow feature start feature_demo

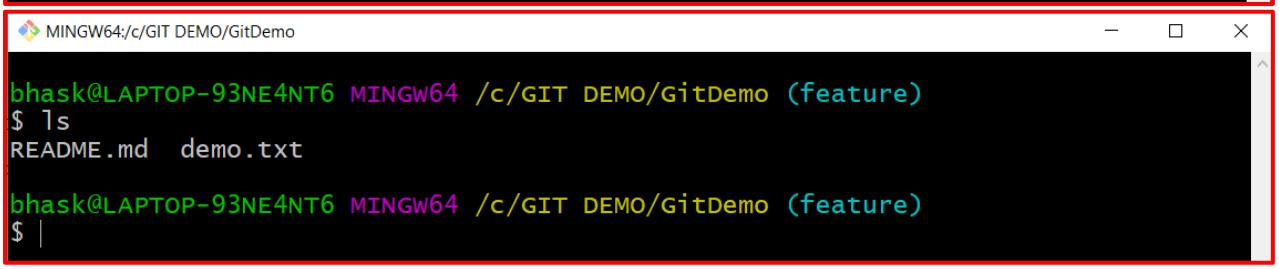


3. Commands to navigate back to **MASTER/MAIN** branch and merge the changes to **MASTER/MAIN** branch.

GIT

Now create text file in **'FEATURE'** Branch in **GIT** and **GIT FLOW** projects, respectively.
Then **ADD** the text file in staging area and perform the **COMMIT**. Refer the below screenshots.





4. Now checkout to **'MAIN'** branch using command:
   git checkout main

```
bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$ ls
README.md

bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$
```

5. To add the **FEATURE BRANCH** files into **MAIN BRANCH** use **MERGE** command in **GIT**:
   git merge feature

MINGW64:/c/GIT DEMO/GitDemo

```
bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$ git merge feature
Updating 342b06d..c1335e2
Fast-forward
 demo.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 demo.txt

bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$
```

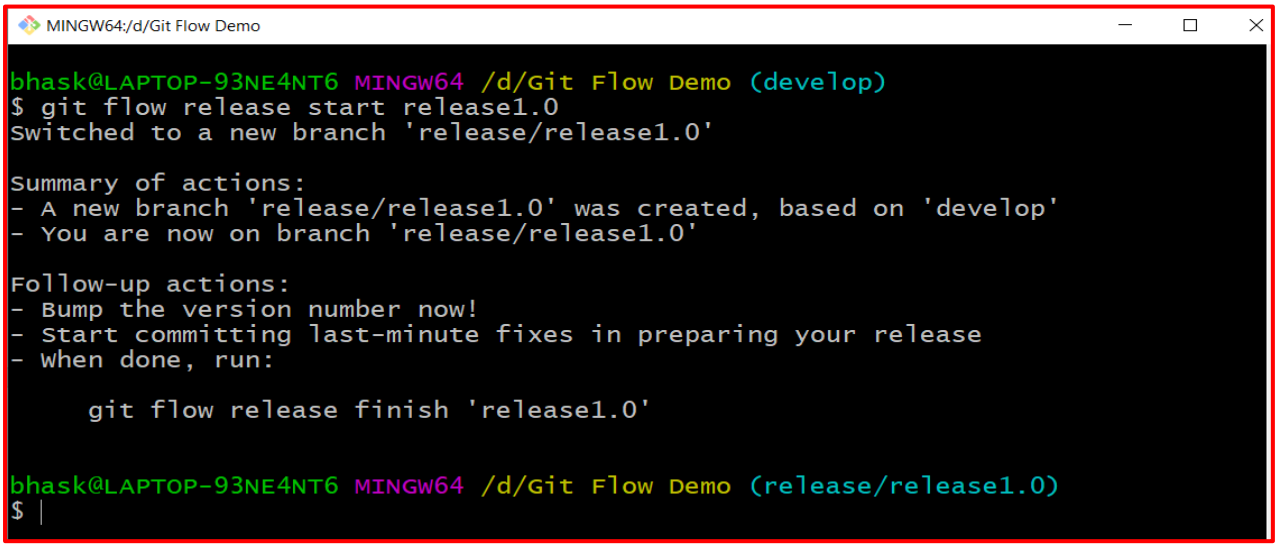
```
bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$ ls
README.md  demo.txt

bhask@LAPTOP-93NE4NT6 MINGW64 /c/GIT DEMO/GitDemo (main)
$
```

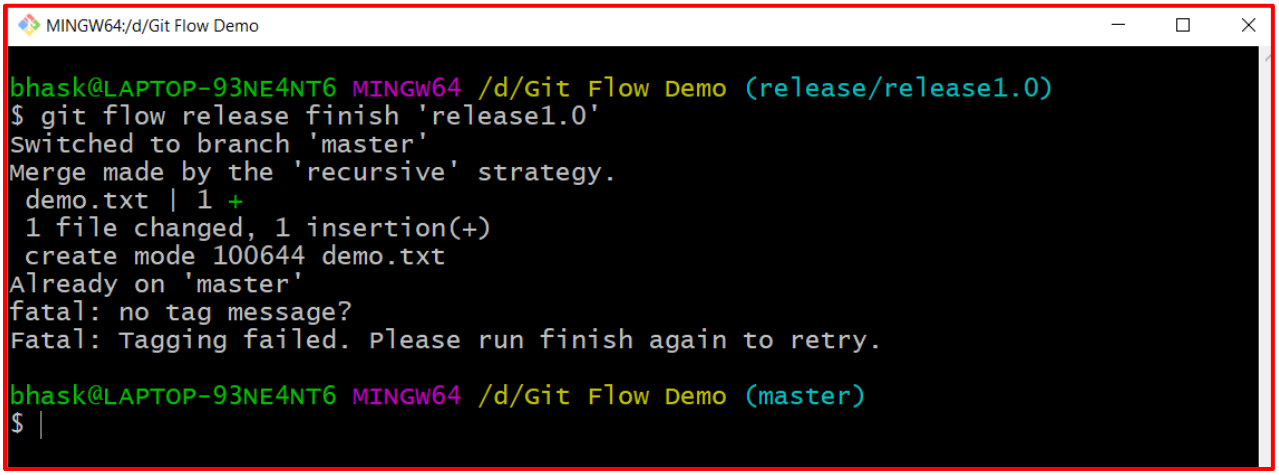
6. GITFLOW

Use the same command mentioned above to create **text file**. **ADD** it in stage are area and **COMMIT** the changes.
Then finish the **FEATURE** branch to move the changes from **FEATURE** branch to **DEVELOP** branch using command:
git flow feature finish feature_demo

7. Start the **release process** based on your **'DEVELOP'** branch using command:
git flow release start release1.0



8. Finish the **'RELEASE1.0'** branch to merge your files to **'MASTER'** branch using command: **git flow release finish 'release1.0'**



9.You will be navigated back to **'Master'** branch from **'Develop'** branch. Your changes are also copied to **MASTER** branch.