Submitted by : **Rithika**

Creation of branch:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout -b hotfix/bug
Switched to a new branch 'hotfix/bug'
```

Deletion of branch:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -d feature/output_screenshot
error: the branch 'feature/output_screenshot' is not fully merged
hint: If you are sure you want to delete it, run 'git branch -D feature/output_scree
hint: Disable this message with "git config set advice.forceDeleteBranch false"

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -D feature/output_screenshot
Deleted branch feature/output_screenshot (was 7cf41a8).
```

Listing Branch :

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git branch
* develop
  feature/notes
  hotfix/bug
  main
  release1.0
```

Execution of Branching Strategies:

1.)Main-Only Strategy:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d
$ cd "EI Exercise"

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise
$ cd "L100"

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ echo " This is main-only strategy"> main_st.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git add main_st.txt
warning: in the working copy of 'main_st.txt', LF will be replaced by CR

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git commit -m "Main_Only Strategy"
[main 421c766] Main_Only Strategy
 1 file changed, 1 insertion(+)
 create mode 100644 main_st.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 155.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/rithikas20/L100
   8b3b29e..421c766  main -> main
```

2.)Feature Branching:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout main
M       output_ss.docx
Already on 'main'
Your branch is up to date with 'origin/main'.

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout -b develop
Switched to a new branch 'develop'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> develop


RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git checkout -b feature1
Switched to a new branch 'feature1'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature1)
$ echo "feature Branching">feature_branch.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature1)
$ git add feature_branch.txt
warning: in the working copy of 'feature_branch.txt', LF will be replaced by CRLF the nex
ches it

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature1)
$ git commit -m "Feature Branching"
[feature1 50970d9] Feature Branching
```

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature1)
$ git push origin feature1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature1' on GitHub by visiting:
remote:      https://github.com/rithikas20/L100/pull/new/feature1
remote:
To https://github.com/rithikas20/L100
 * [new branch]      feature1 -> feature1

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature1)
$ git checkout develop
M       output_ss.docx
Switched to branch 'develop'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git merge feature1
Updating 421c766..50970d9
Fast-forward
 feature_branch.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature_branch.txt
```

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git push origin develop
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rithikas20/L100
   421c766..50970d9  develop -> develop

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git checkout main
M       output_ss.docx
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git merge develop
Updating 421c766..50970d9
Fast-forward
 feature_branch.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature_branch.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rithikas20/L100
   421c766..50970d9  main -> main
```

Default

Branch	Updated
main ⎘	😈 1 minute ago

Your branches

Branch	Updated
develop ⎘	😈 1 minute ago
feature1 ⎘	😈 2 minutes ago

Active branches

Branch	Updated
develop ⎘	😈 1 minute ago
feature1 ⎘	😈 2 minutes ago

3.)GitFlow:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout develop
M        output_ss.docx
Switched to branch 'develop'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git branch -d feature1
Deleted branch feature1 (was 50970d9).

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git push origin --delete feature1
To https://github.com/rithikas20/L100
 - [deleted]         feature1

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (develop)
$ git checkout -b release1.0
Switched to a new branch 'release1.0'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (release1.0)
$ git checkout main
M        output_ss.docx
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git merge release1.0
Already up to date.
```

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout -b hotfix/bug
Switched to a new branch 'hotfix/bug'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (hotfix/bug)
$ echo "HotFix">hotfix.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (hotfix/bug)
$ git add hotfix.txt
warning: in the working copy of 'hotfix.txt', LF will be replaced by CRLF

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (hotfix/bug)
$ git commit -m "HotFix:GitFlow"
[hotfix/bug 55441ca] HotFix:GitFlow
 1 file changed, 1 insertion(+)
 create mode 100644 hotfix.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (hotfix/bug)
$ git push origin hotfix/bug
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 287 bytes | 287.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
```

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (hotfix/bug)
$ git checkout main
M        output_ss.docx
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git merge hotfix
merge: hotfix - not something we can merge

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git push origin main
Everything up-to-date
```

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -d release1.0
error: the branch 'release1.0' is not fully merged
hint: If you are sure you want to delete it, run 'git branch -D release1.0
hint: Disable this message with "git config set advice.forceDeleteBranch f

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -D release1.0
Deleted branch release1.0 (was 99e9b10).

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -D hotfix/bug
Deleted branch hotfix/bug (was 55441ca).

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git branch -D develop
Deleted branch develop (was 50970d9).
```

Default

Branch	Updated
main	14 minutes ago

Your branches

Branch	Updated
release1.0	1 minute ago
hotfix/bug	4 minutes ago
develop	14 minutes ago

Active branches

Branch	Updated
release1.0	1 minute ago
hotfix/bug	4 minutes ago
develop	14 minutes ago

4.)GitHub Flow:

```
RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (main)
$ git checkout -b feature/doc
Switched to a new branch 'feature/doc'

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature/doc)
$ echo "Feature2">docu.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature/doc)
$ git add docu.txt
warning: in the working copy of 'docu.txt', LF will be replaced by CRL

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature/doc)
$ git commit -m "GitHUb"
[feature/doc 7511d98] GitHUb
 1 file changed, 1 insertion(+)
 create mode 100644 docu.txt

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature/doc)
$ git push origin feature/doc
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/doc' on GitHub by visiting:
remote:        https://github.com/rithikas20/L100/pull/new/feature/doc
remote:
To https://github.com/rithikas20/L100
 * [new branch]      feature/doc -> feature/doc

RITHIKA S@LAPTOP-731FUFVB MINGW64 /d/EI Exercise/L100 (feature/doc)
$ git checkout main
M       output_ss.docx
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

⑂ **feature/doc** had recent pushes 2 minutes ago   **Compare & pull request**