**Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.**

**Answer:**

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample

$ git init

Initialized empty Git repository in C:/Users/swati/Desktop/WiproSample/.git/

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git remote add origin https://github.com/swatigithub3/WiproSample.git

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git add .

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git commit -m "First commit"

[main (root-commit) d62f45d] First commit

1 file changed, 1 insertion(+)

create mode 100644 TextFile.txt

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git push -u origin main

info: please complete authentication in your browser...

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 259 bytes | 259.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/swatigithub3/WiproSample.git

\* [new branch] main -> main

branch 'main' set up to track 'origin/main'.

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$

**Assignment 2: Branch Creation and Switching  
Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.**

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git branch

\* main

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (main)

$ git checkout -b "feature"

Switched to a new branch 'feature'

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$ git branch

\* feature

main

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$ git add .

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$ git commit -m "Added for branch"

[feature 6f85b10] Added for branch

1 file changed, 1 insertion(+)

create mode 100644 TextFile2.txt

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$ git push -u origin feature

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 338 bytes | 338.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

remote:

remote: Create a pull request for 'feature' on GitHub by visiting:

remote: https://github.com/swatigithub3/WiproSample/pull/new/feature

remote:

To https://github.com/swatigithub3/WiproSample.git

\* [new branch] feature -> feature

branch 'feature' set up to track 'origin/feature'.

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$

**Assignment 3: Feature Branches and Hotfixes  
Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.**

**Answer:**

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (feature)

$ git checkout -b "hotfix"

Switched to a new branch 'hotfix'

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git branch

feature

\* hotfix

main

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git add TextFile.txt

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git commit -m "Added for hotfix"

[hotfix a19d626] Added for hotfix

1 file changed, 1 insertion(+), 1 deletion(-)

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git push -u origin hotfix

Enumerating objects: 8, done.

Counting objects: 100% (8/8), done.

Delta compression using up to 8 threads

Compressing objects: 100% (5/5), done.

Writing objects: 100% (6/6), 640 bytes | 320.00 KiB/s, done.

Total 6 (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/swatigithub3/WiproSample/pull/new/hotfix

remote:

To https://github.com/swatigithub3/WiproSample.git

\* [new branch] hotfix -> hotfix

branch 'hotfix' set up to track 'origin/hotfix'.

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git pull

remote: Enumerating objects: 12, done.

remote: Counting objects: 100% (11/11), done.

remote: Compressing objects: 100% (6/6), done.

remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (6/6), 1.92 KiB | 57.00 KiB/s, done.

From https://github.com/swatigithub3/WiproSample

6f85b10..314fe93 feature -> origin/feature

0ac01e0..940c5bb main -> origin/main

Already up to date.

swati@LAPTOP-FJE4VR9O MINGW64 ~/Desktop/WiproSample (hotfix)

$ git push -u origin hotfix

branch 'hotfix' set up to track 'origin/hotfix'.

Everything up-to-date