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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.

Solution:

```
Microsoft Windows [Version 10.0.22621.3593]
(c) Microsoft Corporation. All rights reserved.

D:\Akshay\WIPRO CODING\Wipro-Assignment>git init
Reinitialized existing Git repository in D:/Akshay/WIPRO CODING/Wipro-Assignment/.git/

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

D:\Akshay\WIPRO CODING\Wipro-Assignment>git add .

D:\Akshay\WIPRO CODING\Wipro-Assignment>git commit -m "file added"
[main a715048] file added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 demo.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>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), 272 bytes | 272.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/aksh-200/Wipro-Assignment.git
   2867e86..a715048  main -> main

D:\Akshay\WIPRO CODING\Wipro-Assignment>
```

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.

```
D:\Akshay\WIPRO CODING\Wipro-Assignment>
D:\Akshay\WIPRO CODING\Wipro-Assignment>
D:\Akshay\WIPRO CODING\Wipro-Assignment>git branch feature

D:\Akshay\WIPRO CODING\Wipro-Assignment>git checkout feature
Switched to branch 'feature'

D:\Akshay\WIPRO CODING\Wipro-Assignment>git add demo.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch feature
nothing to commit, working tree clean

D:\Akshay\WIPRO CODING\Wipro-Assignment>git commit -m "new file add to feature bra
On branch feature
nothing to commit, working tree clean

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch feature
nothing to commit, working tree clean

D:\Akshay\WIPRO CODING\Wipro-Assignment>git push origin main
Everything up-to-date

D:\Akshay\WIPRO CODING\Wipro-Assignment>
```

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.

```
D:\Akshay\WIPRO CODING\Wipro-Assignment>
D:\Akshay\WIPRO CODING\Wipro-Assignment>git branch hotfix

D:\Akshay\WIPRO CODING\Wipro-Assignment>git checkout hotfix
Switched to branch 'hotfix'

D:\Akshay\WIPRO CODING\Wipro-Assignment>echo "hotfix branch created" >file11.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch hotfix
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file11.txt

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

D:\Akshay\WIPRO CODING\Wipro-Assignment>git add file11.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch hotfix
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file11.txt


D:\Akshay\WIPRO CODING\Wipro-Assignment>git add .

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch hotfix
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
```

```
D:\Akshay\WIPRO CODING\Wipro-Assignment>git commit -m "file1 add"
[hotfix 54d5dbd] file1 add
 1 file changed, 1 insertion(+)
 create mode 100644 file11.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>git push origin hotfix
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), 295 bytes | 295.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:        https://github.com/aksh-200/Wipro-Assignment/pull/new/hotfix
remote:
To https://github.com/aksh-200/Wipro-Assignment.git
 * [new branch]      hotfix -> hotfix

D:\Akshay\WIPRO CODING\Wipro-Assignment>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

D:\Akshay\WIPRO CODING\Wipro-Assignment>git merge hotfix
Updating a715048..54d5dbd
Fast-forward
 file11.txt | 1 +
 1 file changed, 1 insertion(+)
```

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

D:\Akshay\WIPRO CODING\Wipro-Assignment>git merge hotfix
Updating a715048..54d5dbd
Fast-forward
 file11.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 file11.txt

D:\Akshay\WIPRO CODING\Wipro-Assignment>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

D:\Akshay\WIPRO CODING\Wipro-Assignment>git commit -m "Hotfix
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

D:\Akshay\WIPRO CODING\Wipro-Assignment>git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aksh-200/Wipro-Assignment.git
   a715048..54d5dbd  main -> main

D:\Akshay\WIPRO CODING\Wipro-Assignment>
```