

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.

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git
$ git init
Initialized empty Git repository in D:/wipro/learning_git/.git/

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ touch file.txt

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ ls
file.txt

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ nano file.txt

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ cat file.txt
Git assignment 1

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git status
On branch master

No commits yet

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

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

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git add file.txt
warning: in the working copy of 'file.txt', LF will be replaced by CRLF
the next time Git touches it

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   file.txt

Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git commit -m "First commit"
[master (root-commit) 4d5d726] First commit
1 file changed, 1 insertion(+)
create mode 100644 file.txt
```

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.

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git branch feature
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git branch
  feature
* master
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (master)
$ git checkout feature
Switched to branch 'feature'
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ ls
file.txt
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ nano file.txt
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ cat file.txt
Git assignment 1
```

Git assignment 2

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git status
On branch feature
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git add file.txt
warning: in the working copy of 'file.txt', LF will be replaced by CRLF
the next time Git touches it
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git commit -m "second commit"
[feature f6253d0] second commit
1 file changed, 2 insertions(+)
```

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.

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git branch
* feature
master
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git branch hotfix
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git checkout hotfix
M   file.txt
Switched to branch 'hotfix'
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ git branch
feature
* hotfix
master
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ nano file.txt
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ git status
On branch hotfix
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ git add .
warning: in the working copy of 'file.txt', LF will be replaced by CRLF
the next time Git touches it
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ git commit -m "updated hotfix branch"
[hotfix af75d1d] updated hotfix branch
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (hotfix)
$ git checkout feature
Switched to branch 'feature'
```

```
Admin@LAPTOP-O3UEKIHS MINGW64 /d/wipro/learning_git (feature)
$ git merge hotfix
Updating b69f91a..af75d1d
Fast-forward
 file.txt | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

