Name: Vaishnavi Vinod Ingole

Mail:vaishnavingole54@gmail.com

Git LINK FOR ALL git ASSIGNMENTS: https://github.com/vaishnaviingole/gitAssignment1.git

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:

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign
$ git init
Initialized empty Git repository in F:/wpDemo/gitassign/.git/

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git clone https://github.com/vaishnaviingole/gitAssignment1.git
Cloning into 'gitAssignment1'...
warning: You appear to have cloned an empty repository.

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git  status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        gitAssignment1/

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git add .
error: 'gitAssignment1/' does not have a commit checked out
fatal: adding files failed

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ ^C

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ cd gitAssiignment1
bash: cd: gitAssiignment1: No such file or directory

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ cd gitAssignment1

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssiignment1 (main)
$ git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        assignment1git.txt

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

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git add .

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git commit -m" git assignmen1"
[main (root-commit) a59ef93]  git assignmen1
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 assignment1git.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 230 bytes | 115.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/vaishnaviingole/gitAssignment1.git
 * [new branch]      main -> main

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```

```
$

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign
$ git init
Initialized empty Git repository in F:/wpDemo/gitassign/.git/

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git clone https://github.com/vaishnaviingole/gitAssignment1.git
Cloning into 'gitAssignment1'...
warning: You appear to have cloned an empty repository.

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git  status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        gitAssignment1/

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ git add .
error: 'gitAssignment1/' does not have a commit checked out
fatal: adding files failed

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ ^C

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ cd gitAssiignment1
bash: cd: gitAssiignment1: No such file or directory

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign (master)
$ cd gitAssignment1

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        assignment1git.txt

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git add .

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git commit -m" git assignmen1"
[main (root-commit) a59ef93]  git assignmen1
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 assignment1git.txt
```

```
create mode 100644 assignment1git.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 230 bytes | 115.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/vaishnaviingole/gitAssignment1.git
 * [new branch]      main -> 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.

Solution:

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git branch b feature
fatal: not a valid object name: 'feature'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git branch feature

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git checkout feature
Switched to branch 'feature'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ echo "feature changes made" >file1.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git status
On branch feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.txt

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time
Git touches it

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git commit -m "changes made to feature branch"
[feature 5bb2f15] changes made to feature branch
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
```

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git branch feature

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git checkout feature
Switched to branch 'feature'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ echo "feature changes made" >file1.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git status
On branch feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.txt

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git commit -m "changes made to feature branch"
[feature 5bb2f15] changes made to feature branch
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (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.

Solution:

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git branch hotfix

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ echo "hotfix branch created" >file2.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git checkout hotfix
Switched to branch 'hotfix'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ echo "hotfix branch created" >file11.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```

```
$ git ls-files
assignment1git.txt
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```
$ git checkout hotfix
Switched to branch 'hotfix'
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
```
$ vim file11.txt
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
```
$ git status
On branch hotfix
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file11.txt
        file2.txt

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
```
$ git add .
warning: in the working copy of 'file11.txt', LF will be replaced by CRLF the next
time Git touches it
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time
Git touches it
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
```
$ git checkout main
Switched to branch 'main'
A       file11.txt
A       file2.txt
Your branch is up to date with 'origin/main'.
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```
$ git merge hotfix
Updating a59ef93..5bb2f15
Fast-forward
 file1.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file11.txt
        new file:   file2.txt
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```
$ git commit -m"hotfix issue solved and merged with main"
[main 901dda8] hotfix issue solved and merged with main
 2 files changed, 4 insertions(+)
 create mode 100644 file11.txt
 create mode 100644 file2.txt
```

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
```
$ git push
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (7/7), 659 bytes | 659.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/vaishnaviingole/gitAssignment1.git
   a59ef93..901dda8  main -> main
```

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git branch hotfix

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ echo "hotfix branch created" >file2.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (feature)
$ git checkout hotfix
Switched to branch 'hotfix'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ echo "hotfix branch created" >file11.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git ls-files
assignment1git.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git checkout hotfix
Switched to branch 'hotfix'

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ vim file11.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ git status
On branch hotfix
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file11.txt
        file2.txt

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

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ git add .
warning: in the working copy of 'file11.txt', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time Git touches it

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (hotfix)
$ git checkout main
Switched to branch 'main'
A       file11.txt
A       file2.txt
Your branch is up to date with 'origin/main'.

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git merge hotfix
Updating a59ef93..5bb2f15
Fast-forward
 file1.txt | 1 +
 1 file changed, 1 insertion(+)
```

```
vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git merge hotfix
Updating a59ef93..5bb2f15
Fast-forward
 file1.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file11.txt
        new file:   file2.txt


vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git commit -m"hotfix issue solved and merged with main"
[main 901dda8] hotfix issue solved and merged with main
 2 files changed, 4 insertions(+)
 create mode 100644 file11.txt
 create mode 100644 file2.txt

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$ git push
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (7/7), 659 bytes | 659.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/vaishnaviingole/gitAssignment1.git
   a59ef93..901dda8  main -> main

vaish@DESKTOP-RD5TV84 MINGW64 /f/wpDemo/gitassign/gitAssignment1 (main)
$
```