Git Assignment (11/12/25)

Q1: Create Your First Git Repository


```
MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment                    —    □    ×

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment
$ git init
Initialized empty Git repository in C:/Users/Kaushal/OneDrive/Desktop/Sunbeam/As
signment/GITAssignment/.git/

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mas
ter)
$ touch hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mas
ter)
$ git add hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mast
er)
$ git commit -m "Initial commit"
[master (root-commit) 7625029] Initial commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mast
er)
$ |
```

Q2: Check Git Status

```
MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment                    —    □    ×

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mas
ter)
$ touch hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mas
ter)
$ git add hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mast
er)
$ git commit -m "Initial commit"
[master (root-commit) 7625029] Initial commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (mast
er)
$ touch notes.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        notes.txt

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ |
```

Q3: Add & Commit Multiple Files

```
Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        notes.txt

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ touch a.txt b.txt c.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git add
a.txt       b.txt       c.txt       notes.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git add a.txt b.txt c.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git commit -m "Added three files"
[master f2d5fc0] Added three files
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 a.txt
 create mode 100644 b.txt
 create mode 100644 c.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$
```

Q4: Modify a File and Commit Change

```
Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git status
On branch master
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:   hello.txt

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

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git commit -m "Updated hello.txt"
On branch master
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:   hello.txt

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

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$
```

Q5: View Commit History

```
 MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment                    —     □     ×
        notes.txt

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git log
commit f2d5fc09770b29e97d0c8a5fbecb9fe0aa246589 (HEAD -> master)
Author: Kaushal Kalas <kaushalkalas8825@gmail.com>
Date:   Thu Dec 11 09:23:32 2025 +0530

    Added three files

commit 7625029659df46890f71f9f6e66177142aa01b76
Author: Kaushal Kalas <kaushalkalas8825@gmail.com>
Date:   Thu Dec 11 09:19:44 2025 +0530

    Initial commit

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git log --oneline
f2d5fc0 (HEAD -> master) Added three files
7625029 Initial commit

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git log --oneline --graph
* f2d5fc0 (HEAD -> master) Added three files
* 7625029 Initial commit

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ |
```

Q6: Undo Staged Changes

```
 MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment                    —     □     ×
* 7625029 Initial commit

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ touch temp.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git add temp.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git reset temp.txt
Unstaged changes after reset:
M       hello.txt

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$ git status
On branch master
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:   hello.txt

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

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

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment (master)
$
```

Q7: Push Code to GitHub


```
MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (master)
$ git remote add origin https://github.com/kaushalkalas-awesome/myproject.git

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (master)
$ git branch -M main

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 441 bytes | 220.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/kaushalkalas-awesome/myproject.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (main)
$
```

Q8: Pull Latest Changes


```
MINGW64:/c/Users/Kaushal/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 441 bytes | 220.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/kaushalkalas-awesome/myproject.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (main)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 958 bytes | 41.00 KiB/s, done.
From https://github.com/kaushalkalas-awesome/myproject
   f2d5fc0..c641b4c  main         -> origin/main
Updating f2d5fc0..c641b4c
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

Kaushal@Kaushal MINGW64 ~/OneDrive/Desktop/Sunbeam/Assignment/GITAssignment/myproject (main)
$
```

Github Link - https://github.com/kaushalkalas-awesome/myproject