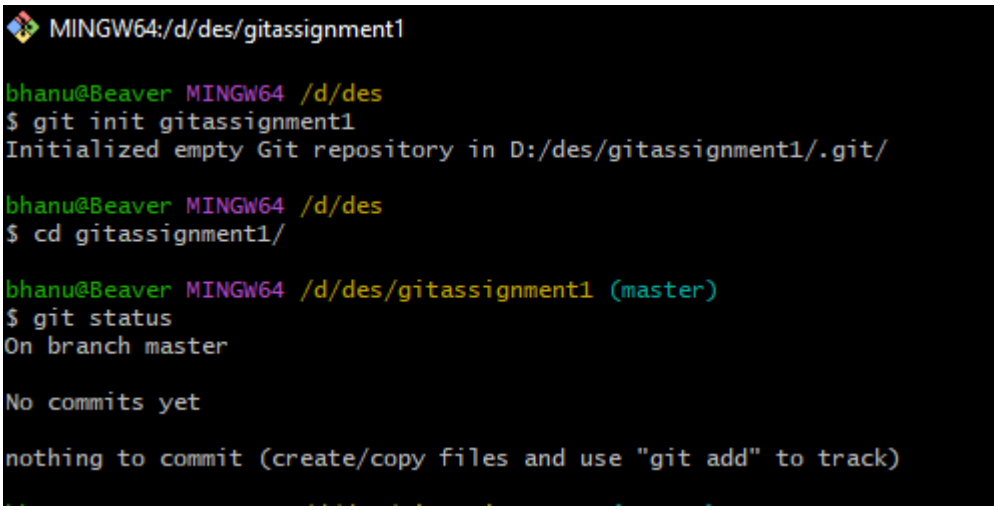
GIT ASSIGNMENT-1

1. Create a New Repository

->Git init gitassignment1
->cd gitassignment1



2. Create a New File

-> echo "hello,this is my first git assignment." > file.txt
->git status
->git add file.txt
->git commit -m "Added first assignment"

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ echo "hello,this is my first git assignment." > file.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (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)

bhanu@Beaver MINGW64 /d/des/gitassignment1 (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

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git commit -m "addad first assignment"
[master (root-commit) 64a23cd] addad first assignment
 1 file changed, 1 insertion(+)
 create mode 100644 file.txt
```

3. Create a Branch

->git branch secondary
->git switch secondary
->git branch

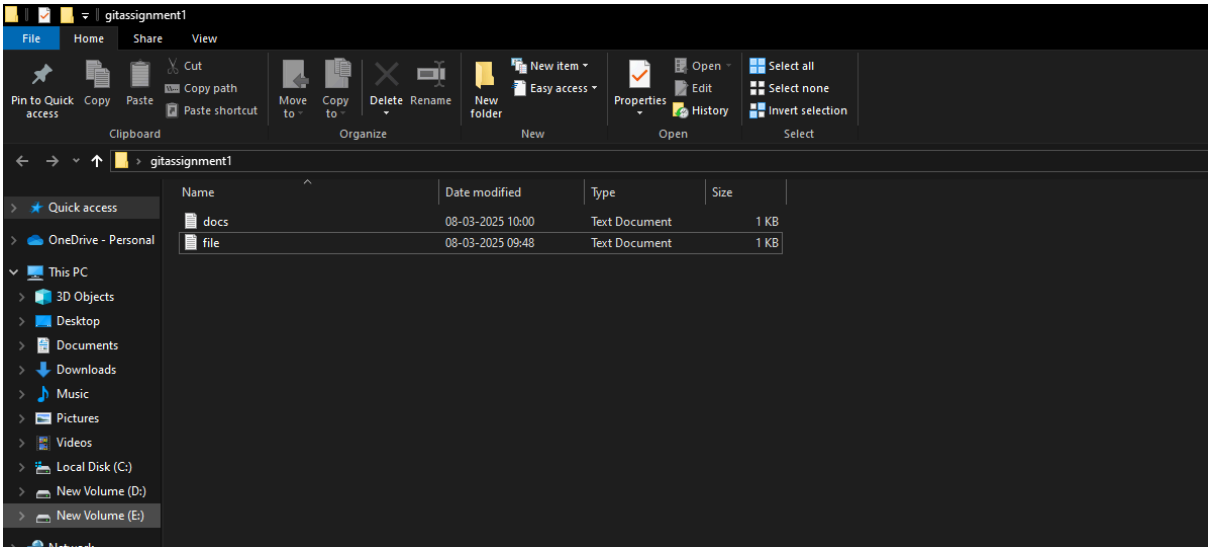
```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git branch
* master

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git branch secondary

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git branch
* master
  secondary

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git switch secondary
Switched to branch 'secondary'

bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ git branch
  master
* secondary
```

4. Make Changes in the New Branch

->$ echo "this is my second file in git assignment" > docs.txt

->git add .
->git commit -m “Added docs.txt in secondary branch”

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ echo "this is my second file in git assignment" > docs.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
        add

bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ git add .
warning: in the working copy of 'docs.txt', LF will be replaced by CRLF the next time Git touches it

bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ git commit -m "Added docs.txt in secondary branch"
[secondary 4396d28] Added docs.txt in secondary branch
 1 file changed, 1 insertion(+)
 create mode 100644 docs.txt
```



5. Create Another Branch (Optional)

->git checkout -b third
->git branch

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (secondary)
$ git checkout -b third
Switched to a new branch 'third'

bhanu@Beaver MINGW64 /d/des/gitassignment1 (third)
$ git branch
  master
  secondary
* third
```

6. Merge Branches

->git checkout master
->git branch
->git merge secondary

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (third)
$ git checkout master
Switched to branch 'master'

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git branch
* master
  secondary
  third

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git merge secondary
Updating 64a23cd..4396d28
Fast-forward
 docs.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 docs.txt
```

7. Pull Changes from Remote

->git remote -v
->git remote add origin https://github.com/bhanu-100/gitassignment1.git
->git branch -r
->git push -u origin master
->git pull origin master

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git remote -v

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git remote add origin https://github.com/bhanu-100/gitassignment1.git

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git remote-v
git: 'remote-v' is not a git command. See 'git --help'.

The most similar command is
        remote-fd

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git remote -v
origin  https://github.com/bhanu-100/gitassignment1.git (fetch)
origin  https://github.com/bhanu-100/gitassignment1.git (push)

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git branch -r

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 554 bytes | 277.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/bhanu-100/gitassignment1.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git pull origin master
From https://github.com/bhanu-100/gitassignment1
 * branch            master     -> FETCH_HEAD
Already up to date.
```

8. View Git Log and History

->git log

->git log --online --graph --all

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log
commit 4396d28de21a626bd5f89c0772082302d8884a69 (HEAD -> master, origin/master, third, secondary)
Author: bhanu-100 <bhanusinghx100@gmail.com>
Date:   Sat Mar 8 10:01:35 2025 +0530

    Added docs.txt in secondary branch

commit 64a23cdce911eb3fda239a28b35c59ad68b8efdb
Author: bhanu-100 <bhanusinghx100@gmail.com>
Date:   Sat Mar 8 09:49:44 2025 +0530

    addad first assignment

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log --oneline --graph --all
* 4396d28 (HEAD -> master, origin/master, third, secondary) Added docs.txt in secondary branch
* 64a23cd addad first assignment
```

9. Git Status and Staging

->git status
->echo “this is third file” > third.txt
->git status
->git add .
->git status
->git commit -m “Added third file”
->git push -u origin master
->git status

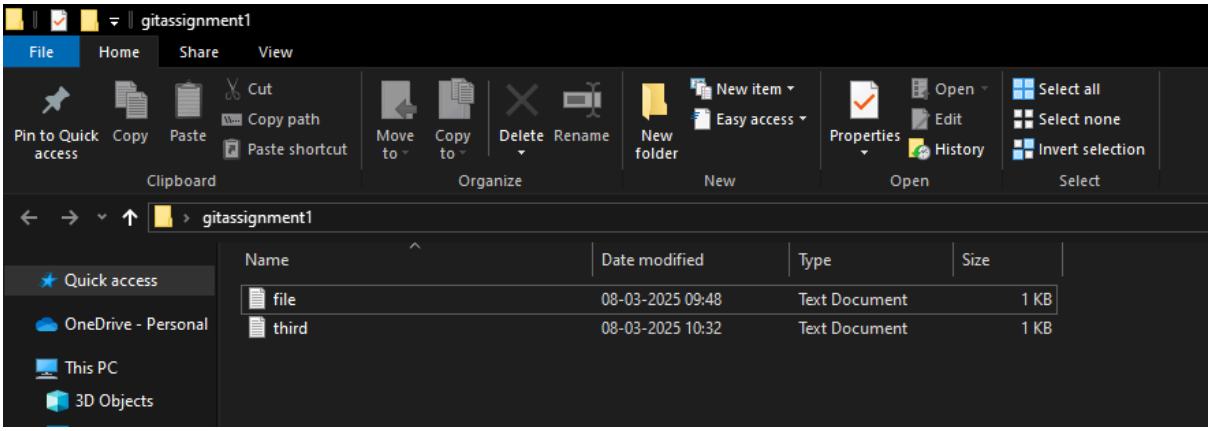
```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ echo "this is third file" > third.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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

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

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git add .
warning: in the working copy of 'third.txt', LF will be replaced by CRLF the next time

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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


bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git commit -m "Added third file"
[master c47d9fd] Added third file
 1 file changed, 1 insertion(+)
 create mode 100644 third.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git push -u origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 324 bytes | 324.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/bhanu-100/gitassignment1.git
   4396d28..c47d9fd  master -> master
branch 'master' set up to track 'origin/master'.
```

10. Revert and Reset

->git log --online --graph --all
->git revert 4396d28
->git commit -m “wrong commit”
->git reset --soft HEAD~1

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log --oneline --graph --all
* c47d9fd (HEAD -> master, origin/master) Added third file
* 4396d28 (third, secondary) Added docs.txt in secondary branch
* 64a23cd addad first assignment

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git revert 4396d28
[master 3376b90] Revert "Added docs.txt in secondary branch"
 1 file changed, 1 deletion(-)
 delete mode 100644 docs.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git reset --soft HEAD~1
```

```
bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git commit -m "wrong commit"
[master cd625aa] wrong commit
 1 file changed, 1 deletion(-)
 delete mode 100644 docs.txt

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ gt log --online
bash: gt: command not found

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log --online
fatal: unrecognized argument: --online

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log --oneline --graph --all
* cd625aa (HEAD -> master) wrong commit
* c47d9fd (origin/master) Added third file
* 4396d28 (third, secondary) Added docs.txt in secondary branch
* 64a23cd addad first assignment

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git reset --soft HEAD~1

bhanu@Beaver MINGW64 /d/des/gitassignment1 (master)
$ git log --oneline --graph --all
* c47d9fd (HEAD -> master, origin/master) Added third file
* 4396d28 (third, secondary) Added docs.txt in secondary branch
* 64a23cd addad first assignment
```


gitassignment1
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
gitassignment1
Quick access
OneDrive - Personal
This PC
3D Objects
Name
Date modified
Type
Size
file
08-03-2025 09:48
Text Document
1 KB
third
08-03-2025 10:32
Text Document
1 KB