Git Assignment

1. Create a New Repository.

2. Create a New File.



3. Create a Branch.



4. Make Changes in the New Branch.

5. Create Another Branch (Optional).

```
PS G:\Saksham\Code\Assignment-repo> git branch optional-branch
PS G:\Saksham\Code\Assignment-repo> octional-branch
PS git branch optional-branch
PS branch
```

6. Merge Branches.

```
PS G:\Saksham\Code\Assignment-repo> git checkout master
Switched to branch 'master'
PS G:\Saksham\Code\Assignment-repo> git merge test-branch
Updating c8bae01..e868fb2
Fast-forward
file.txt | Bin 108 -> 192 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
```

7. Pull Changes from Remote.

8. View Git Log and History.

```
PS G:\Saksham\Code\Assignment-repo> git log --oneline --graph --all

* 8aac277 (HEAD -> master, origin/master) Changes Made Remotely

* e868fb2 (test-branch, optional-branch) Updated file.txt with test-branch

* c8bae01 Added a new file

PS G:\Saksham\Code\Assignment-repo> [
```

9. Git Status and Staging.

- Git Status - Git Staging

```
PS G:\Saksham\Code\Assignment-repo> echo "Changes for git stauts,staging,revert,reset commands" >>file.txt
PS G:\Saksham\Code\Assignment-repo> git status
On branch master
Your branch is up to date with 'origin/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: file.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS G:\Saksham\Code\Assignment-repo> []
```

PS G:\Saksham\Code\Assignment-repo> git add file.txt
PS G:\Saksham\Code\Assignment-repo> []

10. Revert and Reset.

- Revert

```
PS G:\Saksham\Code\Assignment-repo> git commit -m "Changes for revert,reset command"

[master 7322c00] Changes for revert,reset command

1 file changed, 0 insertions(+), 0 deletions(-)

PS G:\Saksham\Code\Assignment-repo> git log --oneline

7322c00 (HEAD -> master) Changes for revert,reset command

8aac277 (origin/master) Changes Made Remotely

e868fb2 (test-branch, optional-branch) Updated file.txt with test-branch

c8bae01 Added a new file

PS G:\Saksham\Code\Assignment-repo> git revert 7322c00

[master c2bccf6] Revert "Changes for revert,reset command"

1 file changed, 0 insertions(+), 0 deletions(-)

PS G:\Saksham\Code\Assignment-repo> []
```

- Reset

```
PS G:\Saksham\Code\Assignment-repo> git log --oneline
b84048e (HEAD -> master) Change for reset command
c2bccf6 Revert "Changes for revert,reset command"
7322c00 Changes for revert,reset command
8aac277 (origin/master) Changes Made Remotely
e868fb2 (test-branch, optional-branch) Updated file.txt with test-branch
c8bae01 Added a new file
PS G:\Saksham\Code\Assignment-repo> git reset --hard 8aac277
HEAD is now at 8aac277 Changes Made Remotely
PS G:\Saksham\Code\Assignment-repo> []
```