Git commands

Creating a local copy for repository

```
PS C:\Users\91964\Desktop> git clone https://github.com/venkateshvaddadi/github_demo.git
Cloning into 'github_demo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
PS C:\Users\91964\Desktop> cd .\github_demo
PS C:\Users\91964\Desktop\github_demo> LS


    Directory: C:\Users\91964\Desktop\github_demo


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         9/9/2023  10:57 AM             31 first_file.txt
-a----         9/9/2023  10:55 AM             13 README.md
-a----         9/9/2023  10:57 AM             24 second_file.txt
-a----         9/9/2023  10:57 AM             23 third_file.txt
```

Checking status

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

Adding single file: (we are adding first.txt file to the repository)

```
PS C:\Users\91964\Desktop\github_demo> git add .\first_file.txt
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

PS C:\Users\91964\Desktop\github_demo> git commit -m 'this is first file we adding'
[main 8cb508c] this is first file we adding
 1 file changed, 2 insertions(+)
 create mode 100644 first_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/venkateshvaddadi/github_demo.git
   030e3e8..8cb508c  main -> main
```

In the above case we have added **first.txt** file. Now we have modified the **first.txt** and checking the status of the repository.

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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:   first_file.txt          .

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

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

Updating **first.txt** in the repository.

```
PS C:\Users\91964\Desktop\github_demo> git add .\first_file.txt
PS C:\Users\91964\Desktop\github_demo> git commit -m 'first file was updated'
[main bfe1c50] first file was updated
 1 file changed, 2 insertions(+), 1 deletion(-)
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 346 bytes | 346.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/venkateshvaddadi/github_demo.git
   8cb508c..bfe1c50  main -> main
```

After this check the status;

Adding all the files with a single command

```
PS C:\Users\91964\Desktop\github_demo> git add *
PS C:\Users\91964\Desktop\github_demo> git commit -m 'these are adding all the files we are adding at a time'
[main 5c5f56c] these are adding all the files we are adding at a time
 2 files changed, 2 insertions(+)
 create mode 100644 second_file.txt
 create mode 100644 third_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 419 bytes | 419.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/venkateshvaddadi/github_demo.git
   bfe1c50..5c5f56c  main -> main
```

Checking the status after we added all the files in the repository

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.
```

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\91964\Desktop\github_demo> git add *
PS C:\Users\91964\Desktop\github_demo> git commit -m 'we added some more files'
[main 0ce4203] we added some more files
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fourth_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 288 bytes | 288.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/venkateshvaddadi/github_demo.git
   5c5f56c..0ce4203  main -> main
```

We have added some file **fourth.txt** in the local repository. Now we want update it in the github repository.

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\91964\Desktop\github_demo> ls


    Directory: C:\Users\91964\Desktop\github_demo


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----          9/9/2023  11:01 AM             59 first_file.txt
-a----          9/9/2023  11:04 AM              0 fourth_file.txt
-a----          9/9/2023  10:55 AM             13 README.md
-a----          9/9/2023  10:57 AM             24 second_file.txt
-a----          9/9/2023  10:57 AM             23 third_file.txt
```

Checking the status of github repository and local repository.

- Created **fifth.txt** file to the local repository.
- update the github repository.

```
PS C:\Users\91964\Desktop\github_demo> git add .\fifth_file.txt
PS C:\Users\91964\Desktop\github_demo> git commit -m 'fifth file wwas created'
[main 2e6232c] fifth file wwas created
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fifth_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 283 bytes | 283.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/venkateshvaddadi/github_demo.git
   dc0cbf1..2e6232c  main -> main
```

Delete fifth.txt file in both repositories

```
PS C:\Users\91964\Desktop\github_demo> git rm .\fifth_file.txt
rm 'fifth_file.txt'
PS C:\Users\91964\Desktop\github_demo> git commit -m 'fifthe file deleting from both the places'
[main 3d0e3e9] fifthe file deleting from both the places
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 fifth_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 249 bytes | 249.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/venkateshvaddadi/github_demo.git
   2e6232c..3d0e3e9  main -> main
```

Check the status after this in both local and github repositories.

Added sub_folder with 2 files in the local repository.

Check the status first. It will show the sub_folder with red color.

```
PS C:\Users\91964\Desktop\github_demo> git status
On branch main
Your branch is up to date with 'origin/main'.

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

Add the sub_folder (which was added to the local repository) to the github:

```
PS C:\Users\91964\Desktop\github_demo> git add .\sub_folder\*
PS C:\Users\91964\Desktop\github_demo> git commit -m 'we are adding sub_folder
[main ea2d6ca] we are adding sub_folder
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 sub_folder/seventh_file.txt
 create mode 100644 sub_folder/sixth_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 349 bytes | 349.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/venkateshvaddadi/github_demo.git
   3d0e3e9..ea2d6ca  main -> main
```

Deleting the sub_folder from both repositories

```
PS C:\Users\91964\Desktop\github_demo> git rm -r .\sub_folder\
rm 'sub_folder/seventh_file.txt'
rm 'sub_folder/sixth_file.txt'
PS C:\Users\91964\Desktop\github_demo> git commit -m 'the sub_folder was deleted'
[main 0908cc5] the sub_folder was deleted
 2 files changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 sub_folder/seventh_file.txt
 delete mode 100644 sub_folder/sixth_file.txt
PS C:\Users\91964\Desktop\github_demo> git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 238 bytes | 238.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/venkateshvaddadi/github_demo.git
   ea2d6ca..0908cc5  main -> main
```

Please check the **git log** command also.