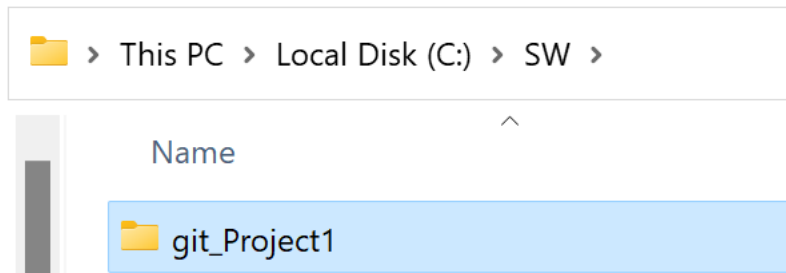


TASK:

1. Please Create a Folder on your PC



2. Make it a local Git repo

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW
$ git init git_Project1
Initialized empty Git repository in c:/SW/git_Project1/.git/

mahranaser@MAHRANASERA64C MINGW64 /c/SW
$ ls
git_Project1/

mahranaser@MAHRANASERA64C MINGW64 /c/SW
$ cd git_Project1/

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$
```

3. Commit any code in the repo

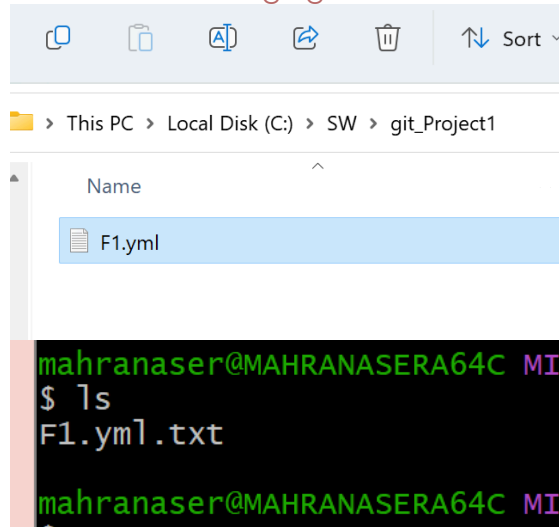
```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git commit -m "First commit - added F1"
[master (root-commit) f6bfc14] First commit - added F1
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 F1.yml.txt

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$
```

4. Try all the discussed commands on your local repo

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git config --global user.name "Mahrah"
```

Add the file to staging area



Git status

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        F1.yml.txt

nothing added to commit but untracked files present (use "git add" to track)
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
```

change the file to staging area

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git add F1.yml.txt

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$
```

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   F1.yml.txt

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$
```

Git log

```
mahranaser@MAHRANASERA64C MINGW64 /c/Sw/git_Project1 (master)
$ git log
commit f6bfc140be06480f676533cd6521402cb6dae3be (HEAD -> master)
Author: Mahrah <Mhranaser@gmail.com>
Date: Sun Nov 6 17:39:09 2022 +0400

    First commit - added F1

mahranaser@MAHRANASERA64C MINGW64 /c/Sw/git_Project1 (master)
$ |
```

Revert commit

[illegible]

Add all

```
mahranaser@MAHRANASERA64C MINGW64 /c/sw/git_Project1 (master)
$ git add .
[master f17c713] Revert "second commit"
1 file changed, 1 deletion(-)

mahranaser@MAHRANASERA64C MINGW64 /c/sw/git_Project1 (master)
$
```

Git restore

```
mahranaser@MAHRANASERA64C MINGW64 /c/Sw/git_Project1 (master)
$ git restore F1.yml.txt

mahranaser@MAHRANASERA64C MINGW64 /c/Sw/git_Project1 (master)
$ git status
On branch master
nothing to commit, working tree clean

mahranaser@MAHRANASERA64C MINGW64 /c/Sw/git_Project1 (master)
$
```

Git branch

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git branch feature1

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ |
```

See the branches I have

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git branch
  feature1
* master

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$
```

Go to branch

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git checkout feature1
Switched to branch 'feature1'

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (feature1)
$ |
```

5. Push your local repo to a remote repo on Github

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/Tasks (test_remotely)
$ git push --set-upstream origin test_remotely
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 295 bytes | 295.00 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.
remote:
remote: Create a pull request for 'test_remotely' on GitHub b
y visiting:
remote:      https://github.com/MahraNaser/Tasks/pull/new/tes
t_remotely
remote:
To https://github.com/MahraNaser/Tasks.git
 * [new branch]      test_remotely -> test_remotely
branch 'test_remotely' set up to track 'origin/test_remotely'
.

mahranaser@MAHRANASERA64C MINGW64 /c/SW/Tasks (test_remotely)
$ |
```

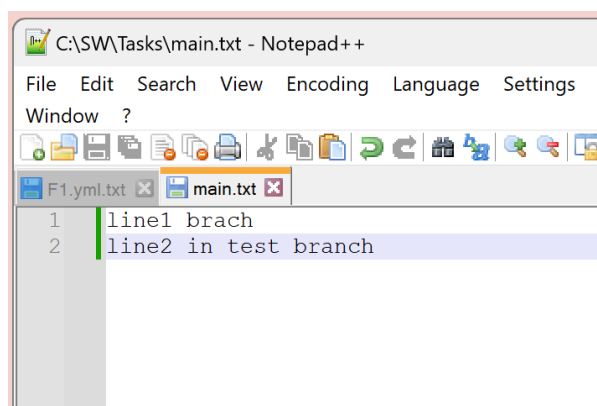
6. Branch from the remote repo. and commit code on your branch

```
mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (main)
$ git branch test_remotely

mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (main)
$ git checkout test_remotely
Switched to branch 'test_remotely'

mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$
```

Modify the file



```
mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$ git status
On branch test_remotely
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        main.txt

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

mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$ |
```

Commit

```
mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$ git commit -m "first commit in branch"
[test_remotely 6edca30] first commit in branch
1 file changed, 2 insertions(+)
create mode 100644 main.txt

mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$ git status
On branch test_remotely
nothing to commit, working tree clean

mahranaser@MAHRANASERA64C MINGW64 /c/sw/Tasks (test_remotely)
$ |
```

7. Merge your code using the discussed Git Workflow

Merge the branch with master

```
mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
$ git merge feature1
Updating f17c713..7fdecad
Fast-forward
 _F1.yml.txt | Bin 0 -> 4096 bytes
 F1.yml.txt   |    3 +++
 2 files changed, 3 insertions(+)
 create mode 100644 _F1.yml.txt

mahranaser@MAHRANASERA64C MINGW64 /c/SW/git_Project1 (master)
```