

Experiment No. 1.1

Student Name: **Rishav Kumar**

Branch: **MCA - CCD**

Semester: **IV**

Subject Name: **CI/CD Pipelines**

UID: **22MCC20039**

Section/Group: **MCD-1/ Grp A**

Date of Performance: **18th Jan 24**

Subject Code: **22CAP-781**

1. Aim/Overview of the practical:

- Create a python file named as your UID (eg. 22MCC20001.py) with some code inside it on a Local Repository named as your UID (eg. 22MCC20001). Push this file on Remote Repo.
- Create another Local Repository named as your name (eg. ABC) and pull the files from Remote Repo in it. After this, create a new file in new Local Repo i.e. ABC and push it to Remote Repo. Again pull the files on old Local Repo i.e. 22MCC20001.
- At last, visit Remote Repo and commit some changes in a file created i.e. 22MCC20001.py and pull the file again in new Local Repo i.e. ABC. Check whether the changes are existing in file in Local Repo or not.

2. Code for practical:

A)

- Open command prompt or git bash.
- Create a folder using command `mkdir 22MCC20039`
- Change directory using `cd 22MCC20039`
- Initialize git using `git init`

```
krish@Arkay MINGW64 ~
$ cd Desktop

krish@Arkay MINGW64 ~/Desktop
$ mkdir 22MCC20039

krish@Arkay MINGW64 ~/Desktop
$ cd 22MCC20039

krish@Arkay MINGW64 ~/Desktop/22MCC20039
$ git init
Initialized empty Git repository in C:/Users/krish/Desktop/22MCC20039/.git/
```

- Create a new file using `notepad 22MCC20039.py`
- Check `git status` after that add file using `git add 22MCC20039.py`
- After that, again check status of git.

```
krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ notepad 22MCC20039.py

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        22MCC20039.py

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

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git add 22MCC20039.py

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   22MCC20039.py
```

- Commit changes using `git commit -m "Message"`.
- Add username and email on git using

`git config user.name "Username"`

`git config user.email "emailaddress@gmail.com"`

- Open *Github.com* > *Repositories* > *New*
- Now create a new main branch using `git branch -M main`

```
MINGW64:/c/Users/krish/Desktop/22MCC20039

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git commit -m "Created a py file"
[master (root-commit) 6a02d39] Created a py file
1 file changed, 1 insertion(+)
 create mode 100644 22MCC20039.py

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git config user.name "Rishav518"

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git config user.email "rishav.arkay@gmail.com"

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (master)
$ git branch -M main

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (main)
$ git remote add origin https://github.com/Rishav518/22MCC20039.git
```

- Connect remote repo using `git remote add origin <repo_link>`

- Now push local repo to remote repo using `git push -u origin main`.

```
krish@Arkay MINGW64 ~/Desktop/22MCC20039 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 234 bytes | 234.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Rishav518/22MCC20039.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

B)

- Create another folder using `mkdir rishav`
- Initialize git by using command `git init`
- Add remote repo `git remote add origin https://github.com/Rishav518/22MCC20039.git`

```
krish@Arkay MINGW64 ~/Desktop/22MCC20039 (main)
$ cd ..

krish@Arkay MINGW64 ~/Desktop
$ mkdir rishav

krish@Arkay MINGW64 ~/Desktop
$ cd rishav

krish@Arkay MINGW64 ~/Desktop/rishav
$ git init
Initialized empty Git repository in C:/Users/krish/Desktop/rishav/.git/

krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git remote add origin https://github.com/Rishav518/22MCC20039.git
```

- Now pull from remote repo using `git pull origin main`

```
krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git pull origin main
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 214 bytes | 42.00 KiB/s, done.
From https://github.com/Rishav518/22MCC20039
 * branch      main      -> FETCH_HEAD
 * [new branch] main      -> origin/main
```

- Now create a second file and add it on git.
- Commit changes to local repo.

```
krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ notepad secondfile.py

krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git add secondfile.py

krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git commit -m "Second file added"
[master 8ed966d] Second file added
1 file changed, 1 insertion(+)
create mode 100644 secondfile.py
```

- Now, push changes to remote repo using `git push -u origin master`

```
krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git push -u origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 290 bytes | 290.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/Rishav518/22MCC20039/pull/new/master
remote:
To https://github.com/Rishav518/22MCC20039.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

- Change local repo to first directory 22MCC20039 and use pull command.

```
MINGW64; c:/Users/krish/Desktop/22MCC20039
krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ cd ..

krish@Arkay MINGW64 ~/Desktop
$ cd 22MCC20039

krish@Arkay MINGW64 ~/Desktop/22MCC20039 (main)
$ git pull origin master
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 270 bytes | 45.00 KiB/s, done.
From https://github.com/Rishav518/22MCC20039
 * branch            master      -> FETCH_HEAD
 * [new branch]      master      -> origin/master
Updating 6a02d39..8ed966d
Fast-forward
 secondfile.py | 1 +
1 file changed, 1 insertion(+)
create mode 100644 secondfile.py
```

- Open GitHub and make changes in first file i.e. 22MCC20039.py
- Go to second local repo and pull the file.

```
krish@Arkay MINGW64 ~/Desktop/22MCC20039 (main)
$ cd ..

krish@Arkay MINGW64 ~/Desktop
$ cd rishav

krish@Arkay MINGW64 ~/Desktop/rishav (master)
$ git pull origin master
From https://github.com/Rishav518/22MCC20039
 * branch      master      -> FETCH_HEAD
Already up to date.
```

- Changes has been made in the file present in local repo.

***** **THE END** *****