Experiment No. 1.1

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Branch: MCA - CCD   **Section/Group: MCD-1/ Grp A**

Semester: III   **Date of Performance: 10th Aug 23**

Subject Name: DevOps Process Automation Lab   **Subject Code: 22CAP-745**

1. Aim/Overview of the practical:

a) 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.

(b) 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.

(c) 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.

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

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

- 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** ***