Experiment 1.1

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Branch: MCA – CCD   **Section/Group: 22MCD-1/Grp A**
Semester- III   **Date of Performance: 09-08-2023**
Subject: DevOps Process Automation Lab   **Subject Code: 22CAP-745**

1. Aim/Overview of the practical:

The aim of this practical is to get familiar with version control systems (Git or Github) and learn the fundamental concepts of creating local repositories, making commits, working with remote repositories.

2. Task to be done:

(a) Create a python file named as your UID (eg.22MCC20172.txt) with some code inside it on a Local Repository named as your UID (eg. 22MCC20172). 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. 22MCC20172.

(c) At last, visit Remote Repo and commit some changes in a file created i.e. 22MCC20172.txt 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) Create and apply custom formulas to derive specific insights from the sales data.

3. Code for experiment/practical:

a)

• Create a folder named 22MCC20011 and then create a Java file named 22MCC20172.txt inside it. **mkdir 22MCC20172.**
• Navigate to the newly created folder **cd 22MCC20172.**
• Initialize a new Git repository in the current directory **git init.**
• Check the status of your repository and the files within it **git status**.
• Add the 22MCC20172.txt file to the staging area **git add 22MCC20172**.
• Check the status again to confirm the file is staged **git status.**
• Commit the changes to the repository with a meaningful message **git commit -m "Done".**
• Add a remote repository named origin https://github.com/Kumar-Rohit1998/Rohitgitexp1
• Push the committed changes to the remote repository on the master/main branch **git push -u origin main**

b)

- Create a new directory named Rohit and navigate into it. **mkdir Rohit ,cd Rohit.**
- Initialize a new Git repository in the current directory **git init.**
- Add a remote repository named origin **git remote add origin git remote add origin**
  https://github.com/Kumar-Rohit1998/Rohitgitexp1
- And then pull the file **git pull origin main.**

Now, add second file.

- Check the status of your repository to see the changes **git status.**
- Add the new file named second_file.py to the staging area **git add second.txt**.
- Check the status again to confirm the file is staged **git status.**
- Commit the staged changes with a meaningful message **git commit -m "Done".**
- Push the committed changes to the remote repository on the master branch **git push -u origin master.**
- Change directory to first local repo.
- **cd 22MCC20172**
- **git pull origin master**

c)

Go to github and change some code in first file.
- **Cd Rohit**
- **Git pull origin master**

4. Result/Output/Writing Summary:


```
MINGW64:/c/Users/admin/GitExp1/22MCC20172                              —  □  ×

admin@DESKTOP-CME44QM MINGW64 ~
$ cd GitExp1

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1
$ mkdir 22MCC20172

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1
$ ls
22MCC20172/

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1
$ git init
Initialized empty Git repository in C:/Users/admin/GitExp1/.git/

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1 (master)
$ cd 22MCC20172

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git init
Initialized empty Git repository in C:/Users/admin/GitExp1/22MCC20172/.git/

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git add 22MCC20172.txt
fatal: pathspec '22MCC20172.txt' did not match any files

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git add 22MCC20172.txt

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git commit -m "Done"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'admin@DESKTOP-CME44QM.(none)')
```



```
MINGW64:/c/Users/admin/GitExp1/22MCC20172                              —  □  ×

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   22MCC20172.txt

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git commit -m "Done"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'admin@DESKTOP-CME44QM.(none)')

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git config --global user.email "kumarrohit70938@gmail.com
> "

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git config --global user.name "Rohit
> "

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git commit -m "Done"
[master (root-commit) 8b5f0dd] Done
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 22MCC20172.txt

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git branch -M master

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git remote add origin https://github.com/Kumar-Rohit1998/Rohitgitexp1

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git push -u origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 215 bytes | 215.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Kumar-Rohit1998/Rohitgitexp1
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$
```
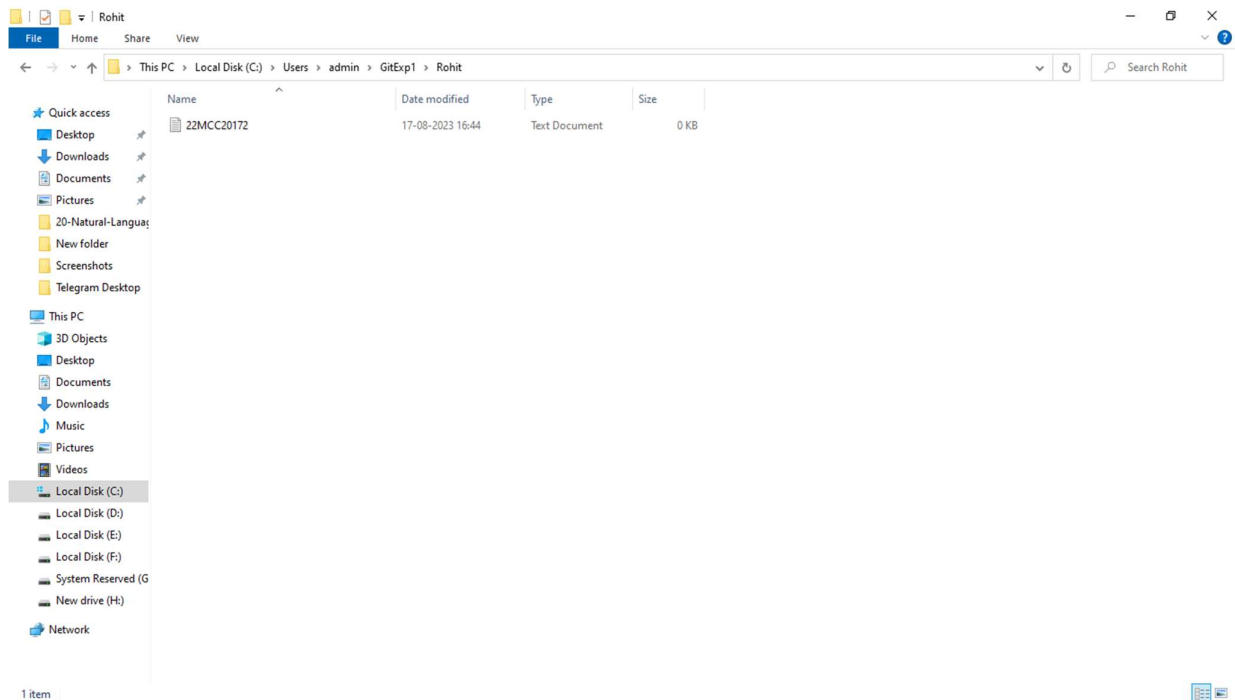
File Explorer window showing:

Name	Date modified	Type	Size
22MCC20172	17-08-2023 16:44	Text Document	0 KB

This PC › Local Disk (C:) › Users › admin › GitExp1 › Rohit

1 item

MINGW64:/c/Users/admin/GitExp1/Rohit

```
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 215 bytes | 215.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Kumar-Rohit1998/Rohitgitexp1
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ cd ..

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1 (master)
$ mkdir Rohit

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1 (master)
$ cd Rohit

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git init
Initialized empty Git repository in C:/Users/admin/GitExp1/Rohit/.git/

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git remote add origin https://github.com/Kumar-Rohit1998/Rohitgitexp1

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git pull origin master
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), 195 bytes | 10.00 KiB/s, done.
From https://github.com/Kumar-Rohit1998/Rohitgitexp1
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> origin/master
```

```
$ git add second.txt
fatal: pathspec 'second.txt' did not match any files

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git add second.txt

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   second.txt


admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git commit -m "Done"
[master 16f46bd] Done
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 second.txt

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 246 bytes | 246.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Kumar-Rohit1998/Rohitgitexp1
   8b5f0dd..16f46bd  master -> master
branch 'master' set up to track 'origin/master'.

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/Rohit (master)
$ cd ..

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1 (master)
$ cd 22MCC20172

admin@DESKTOP-CME44QM MINGW64 ~/GitExp1/22MCC20172 (master)
$ git pull origin master
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 0), reused 2 (delta 0), pack-reused 0
Unpacking objects: 100% (2/2), 226 bytes | 10.00 KiB/s, done.
From https://github.com/Kumar-Rohit1998/Rohitgitexp1
 * branch            master     -> FETCH_HEAD
   8b5f0dd..16f46bd  master     -> origin/master
Updating 8b5f0dd..16f46bd
Fast-forward
 second.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 second.txt
```