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Experiment No. 1.1

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Semester: III
Subject Name: Devops Process Automation Lab **Subject Code:** 22CAP-745

1. Aim/Overview of the practical:

(a) Create a python file with some code inside it on a Local Repository. Push this file on Remote Repo.

(b) Create a another Local Repository and pull the files from Remote Repo in it. After this, create a new file in new Local Repo and push it to Remote Repo. Again pull the files on old Local Repo.

(c) At last, visit Remote Repo and commit some changes in a file created i.e. hello.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.

Install and setup git in your systems (for windows)

- Browse to the official Git website: https://git-scm.com/downloads
- Click the download link for Windows and allow the download to complete.
- Browse to the download location. Double-click the file to extract and launch the installer.
- Once the installation is complete, open Command Prompt and run "git –version" to check for successfully installation of git.

```
C:\Users\Pinda>git --version
git version 2.41.0.windows.3
```

2. Code for experiment/practical:

(a) Create a python file with some code inside it on a Local Repository. Push this file on Remote Repo.

- mkdir git1
- cd git1
- git init
- git add hello.py
- git status
- git config user.name "Parvinder Singh"
- git config user.email 22mcc20043@cuchd.in
- git commit -m "Folder1"
- git remote add origin https://github.com/parvinder20043/Experiment-1.git
- git push -u origin master

```
Pinda@SPEED MINGW64 ~
$ mkdir git1

Pinda@SPEED MINGW64 ~
$ cd git1

Pinda@SPEED MINGW64 ~/git1
$ git init
Initialized empty Git repository in C:/Users/Pinda/git1/.git/

Pinda@SPEED MINGW64 ~/git1 (master)
$ git add hello.py

Pinda@SPEED MINGW64 ~/git1 (master)
$ git status
On branch master

No commits yet

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


Pinda@SPEED MINGW64 ~/git1 (master)
$ git config user.name "Parvinder Singh"

Pinda@SPEED MINGW64 ~/git1 (master)
$ git config user.email "22mcc20043@cuchd.in"

Pinda@SPEED MINGW64 ~/git1 (master)
$ git commit -m "Folder1"
[master (root-commit) 678c215] Folder1
 1 file changed, 1 insertion(+)
 create mode 100644 hello.py

Pinda@SPEED MINGW64 ~/git1 (master)
$ git remote add origin "https://github.com/parvinder20043/Experiment-1.git"

Pinda@SPEED MINGW64 ~/git1 (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 245 bytes | 245.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/parvinder20043/Experiment-1.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

(b) Create a another Local Repository and pull the files from Remote Repo in it. After this, create a new file in new Local Repo and push it to Remote Repo. Again pull the files on old Local Repo.

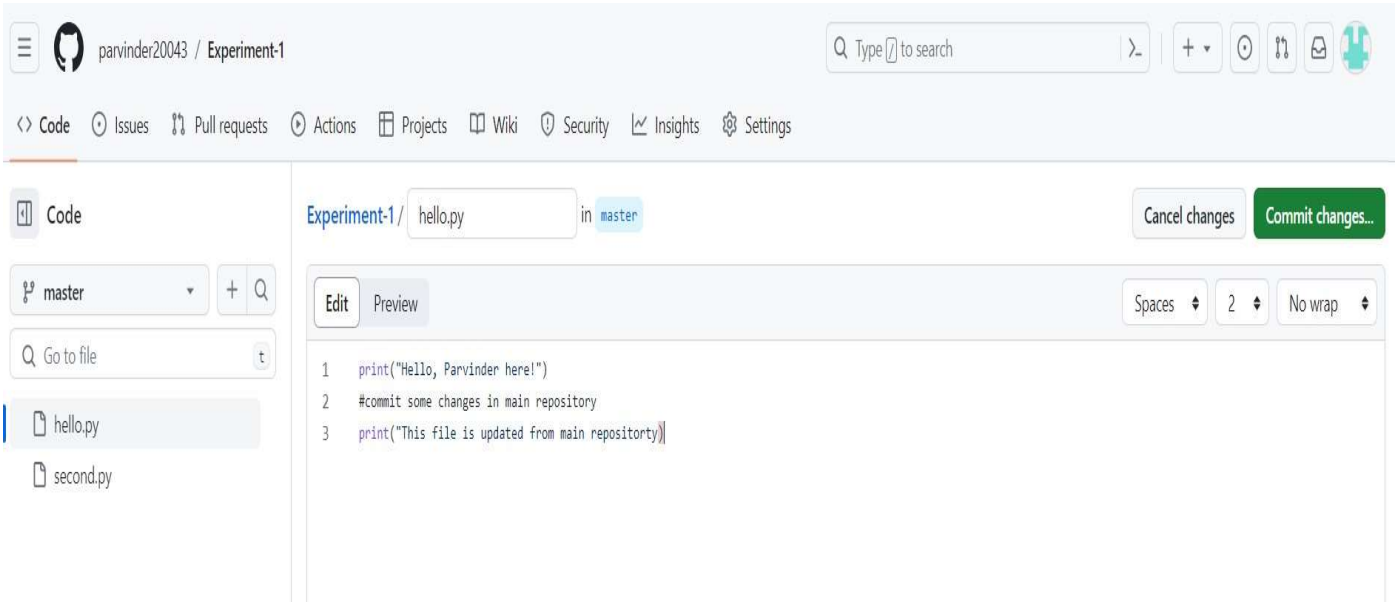
- mkdir git2
- cd git2
- git init
- git config user.name “Parvinder Singh”
- git config user.email 22mcc20043@cuchd.in
- git remote add origin https://github.com/parvinder20043/Experiment-1.git
- git pull origin master
- git add second.py
- git status
- git commit -m “Folder2”
- git push -u origin master
- cd ..
- cd git1
- git remote add origin https://github.com/parvinder20043/Experiment-1.git
- git pull origin main

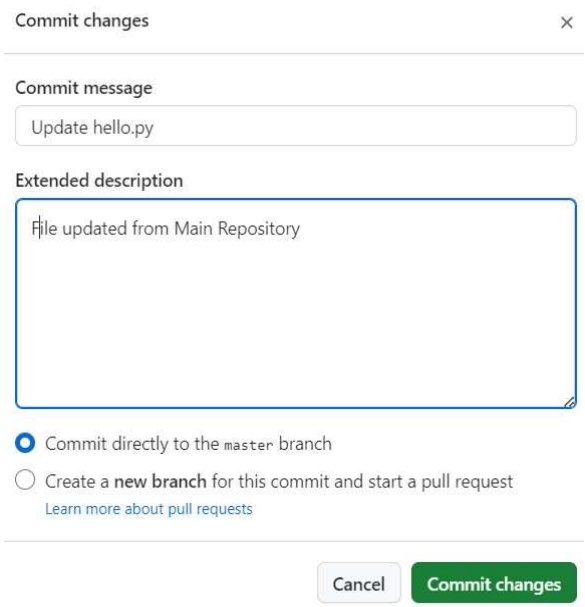
```
Pinda@SPEED MINGW64 ~
$ mkdir git2

Pinda@SPEED MINGW64 ~
$ cd git2

Pinda@SPEED MINGW64 ~/git2
$ git init
Initialized empty Git repository in C:/Users/Pinda/git2/.git/

Pinda@SPEED MINGW64 ~/git2 (master)
$ git config user.email "22mcc20043@cuchd.in"

Pinda@SPEED MINGW64 ~/git2 (master)
$ git config user.name "Parvinder Singh"

Pinda@SPEED MINGW64 ~/git2 (master)
$ git remote add origin "https://github.com/parvinder20043/Experiment-1.git"

Pinda@SPEED MINGW64 ~/git2 (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), 225 bytes | 28.00 KiB/s, done.
From https://github.com/parvinder20043/Experiment-1
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> origin/master
```

```
Pinda@SPEED MINGW64 ~/git2 (master)
$ git add second.py

Pinda@SPEED MINGW64 ~/git2 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   second.py


Pinda@SPEED MINGW64 ~/git2 (master)
$ git commit -m "Folder2"
[master b3b66eb] Folder2
 1 file changed, 1 insertion(+)
 create mode 100644 second.py

Pinda@SPEED MINGW64 ~/git2 (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), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/parvinder20043/Experiment-1.git
   678c215..b3b66eb  master -> master
branch 'master' set up to track 'origin/master'.
```

```
Pinda@SPEED MINGW64 ~
$ cd git1

Pinda@SPEED MINGW64 ~/git1 (master)
$ 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), 291 bytes | 17.00 KiB/s, done.
From https://github.com/parvinder20043/Experiment-1
 * branch            master     -> FETCH_HEAD
   678c215..b3b66eb  master     -> origin/master
Updating 678c215..b3b66eb
Fast-forward
 second.py | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 second.py
```

(c) At last, visit Remote Repo and commit some changes in a file created i.e. hello.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.





- mkdir ABC
- git init
- git remote add origin https://github.com/parvinder20043/Experiment-1.git
- git pull origin main

Yes, after commiting changes in main repo if we pull then change are existing in local repo.

```
Pinda@SPEED MINGW64 ~
$ mkdir ABC

Pinda@SPEED MINGW64 ~
$ cd ABC

Pinda@SPEED MINGW64 ~/ABC
$ git init
Initialized empty Git repository in C:/Users/Pinda/ABC/.git/

Pinda@SPEED MINGW64 ~/ABC (master)
$ git config user.email "22mcc20043@cuchd.in"

Pinda@SPEED MINGW64 ~/ABC (master)
$ git config user.name "Parvinder Singh"

Pinda@SPEED MINGW64 ~/ABC (master)
$ git remote add origin "https://github.com/parvinder20043/Experiment-1.git"

Pinda@SPEED MINGW64 ~/ABC (master)
$ git pull origin master
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 9 (delta 0), reused 6 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), 1.24 KiB | 52.00 KiB/s, done.
From https://github.com/parvinder20043/Experiment-1
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> origin/master
```

hello.py

C: > Users > Pinda > ABC > hello.py

```
1  print("Hello, Parvinder here!")
2  #commit some changes in main repository
3  print("This file is updated from main repositorty")
4
```