

EXPERIMENT 3

AIM: To Perform various GIT operations on local and Remote repositories using GIT Cheat-Sheet.

DEMONSTRATION:

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ git config --global user.name "rounak"  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ git config --global user.email rounak.hacks@gmail.com  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ git config --global --list  
filter.lfs.smudge=git-lfs smudge -- %f  
filter.lfs.process=git-lfs filter-process  
filter.lfs.required=true  
filter.lfs.clean=git-lfs clean -- %f  
user.name=rounak  
user.email=rounak.hacks@gmail.com  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ mkdir git-demo-project  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ cd git-demo-project  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project  
$ git init  
Initialized empty Git repository in C:/Users/DELL/git-demo-project/.git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ls -a  
./ ../ .git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ rm -rf git  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ls -a  
./ ../ .git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ rm -rf git  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ^C  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ls -al  
total 20  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 ./  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 ../  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 .git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git init  
Reinitialized existing Git repository in C:/Users/DELL/git-demo-project/.git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git add .
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git status
On branch master

No commits yet

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

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git commit -m "first commit"
On branch master

Initial commit

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

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git status
On branch master

No commits yet

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

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git remote show origin

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git push

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git pull

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git fetch

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git merge
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~
$ git config --global user.name "rounak"

DELL@DESKTOP-F4Q6JAN MINGW64 ~
$ git config --global user.email rounak.hacks@gmail.com
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~
$ git config --global --list
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
filter.lfs.clean=git-lfs clean -- %f
user.name=rounak
user.email=rounak.hacks@gmail.com
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ mkdir git-demo-project  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~  
$ cd git-demo-project  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project  
$ git init  
Initialized empty Git repository in C:/Users/DELL/git-demo-project/.git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ^C  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ls -la  
./ ../ .git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ rm -rf git
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ ls -la  
total 20  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 ./  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 ../  
drwxr-xr-x 1 DELL 197121 0 Apr  1 23:27 .git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git init  
Reinitialized existing Git repository in C:/Users/DELL/git-demo-project/.git/  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git add .  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git status  
On branch master  
  
No commits yet
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git commit -m "first commit"  
On branch master  
  
Initial commit  
  
nothing to commit (create/copy files and use "git add" to track)  
  
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git status  
On branch master  
  
No commits yet  
  
nothing to commit (create/copy files and use "git add" to track)
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git push
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)  
$ git pull
```

```
DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git fetch

DELL@DESKTOP-F4Q6JAN MINGW64 ~/git-demo-project (master)
$ git merge
```

CONCLUSION:

Thus, we have successfully studied and performed various GIT operations on local and Remote repositories using GIT Cheat-Sheet.