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Roll-No: 27

## EXPERIMENT – 3

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

```
15L@203-06 MINGW64 ~/Desktop/shrey-git (master)
```

```
$ git config --global user.name "shrey"
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git (master)
```

```
$ git config --global user.email sshrey30.shah@gmail.com
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git (master)
```

```
$ git config --global --list user.name=shrey
```

```
user.email=sshrey30.shah@gmail.com
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git (master)
```

```
$ mkdir git-demo-project
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git (master)
```

```
$ cd git-demo-project
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git init
```

```
Initialized empty Git repository in C:/Users/15L/Desktop/shrey-git/git-  
demoproject/.git/
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ ls -a
```

```
./ ../ .git/
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ rm -rf .git/
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ rm -rf .git
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ ls -al total 0 drwxr-xr-x 1 15L 197121 0
```

```
Jan 23 13:40 ./ drwxr-xr-x 1 15L 197121 0
```

```
Jan 23 13:39 ../
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git init
Initialized empty Git repository in C:/Users/15L/Desktop/shrey-git/git-
demoproject/.git/
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master) $
git add .
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git status
On branch master
```

```
No commits yet
```

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

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git commit -m "first commit"
[master (root-commit) d489bcf] first commit 1
file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 sample.txt
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git status
On branch master Untracked
files:
  (use "git add <file>..." to include in what will be committed)
index.html
nothing added to commit but untracked files present (use "git add" to
track)
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master) $
git add .
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
new file:   index.html
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git commit -am "express commit"
[master bef012b] express commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status
On branch master
nothing to commit, working tree clean
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git log
commit bef012be210dc3856730420ce2228425d43e58f5 (HEAD -> master)
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

```
Date: Tue Jan 23 13:43:06 2024 +0530
```

```
express
```

```
commit
```

```
commit d489bcf61da3943db131c6d0274d9eac00737319
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

```
Date: Tue Jan 23 13:41:06 2024 +0530
```

```
first
```

```
commit
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ nano index.html
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status
```

```
On branch master
```

```
Changes not staged for commit:
```

```
(use "git add <file>..." to update what will be committed) (use
"git restore <file>..." to discard changes in working directory)
```

```
modified:   index.html
```

```
no changes added to commit (use "git add" and/or "git commit -
a")
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git log
```

```
commit bef012be210dc3856730420ce2228425d43e58f5 (HEAD -> master)
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

```
Date: Tue Jan 23 13:43:06 2024 +0530
```

```
express
```

```
commit
```

```
commit d489bcf61da3943db131c6d0274d9eac00737319
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

```
Date: Tue Jan 23 13:41:06 2024 +0530
```

```
first
```

```
commit
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ touch teststatus
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status
```

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

teststatus

no changes added to commit (use "git add" and/or "git commit -a")

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

```
$ git checkout -- teststatus error: pathspec 'teststatus' did not
match any file(s) known to git
```

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

```
$ git checkout --index.html error: unknown option
`index.html' usage: git checkout [<options>] <branch>
or: git checkout [<options>] [<branch>] -- <file>...
```

-b <branch>	create and checkout a new branch
-B <branch>	create/reset and checkout a branch
-l	create reflog for new branch
--guess	second guess 'git checkout <no-such-branch>' (default)
--overlay	use overlay mode (default)
-q, --quiet	suppress progress reporting
--recurse-submodules[=<checkout>]	
control recursive updating of submodules	
--progress	force progress reporting
-m, --merge	perform a 3-way merge with the new branch
--conflict <style>	conflict style (merge, diff3, or zdiff3)
-d, --detach	detach HEAD at named commit
-t, --track[=(direct inherit)]	
set branch tracking configuration	
-f, --force	force checkout (throw away local modifications)
--orphan <new-branch>	new
unparented branch	--overwrite-ignore update
ignored files (default)	
--ignore-other-worktrees	do not check if another
worktree is holding the given ref	
-2, --ours	checkout our version for unmerged files
-3, --theirs	checkout their version for unmerged files
-p, --patch	select hunks interactively
--ignore-skip-worktree-bits	do not limit
pathsspecs to sparse entries only	
--pathspec-from-file <file>	
read pathspec from file	
--pathspec-file-nul	with --pathspec-from-file, pathspec elements are separated with NUL character

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git add index.html warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git restore --staged <file>..." to unstage)
```

```
modified:   index.html
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
teststatus
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git add teststatus
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git restore --staged <file>..." to unstage)
```

```
modified:   index.html      new file:
```

```
teststatus
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git commit -am "express commit"
```

```
[master 298a0e6] express commit
```

```
2 files changed, 1 insertion(+)
```

```
create mode 100644 teststatus
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
```

```
$ git status On branch master nothing
```

```
to commit, working tree clean
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-
```

```
git/git-demo-project (master)
```

```
$ git log
```

```
commit 298a0e6689dd8b9d98ebc4e5413441e244b1036d (HEAD -> master)
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

```
Date: Tue Jan 23 13:48:37 2024 +0530
```

```
    express
```

```
commit
```

```
commit bef012be210dc3856730420ce2228425d43e58f5
```

```
Author: shrey <sshrey30.shah@gmail.com>
```

Date: Tue Jan 23 13:43:06 2024 +0530

express

commit

commit d489bcf61da3943db131c6d0274d9eac00737319

Author: shrey <sshrey30.shah@gmail.com>

Date: Tue Jan 23 13:41:06 2024 +0530

first

commit

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git log --oneline

298a0e6 (HEAD -> master) express commit

bef012b express commit d489bcf first

commit

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git remote add origin https://github.com/shrey-tsec/SEPM.git

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ rm -rf ^C

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ rm -rf https://github.com/shrey-tsec/SEPM.git

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master) \$

git remote add origin https://github.com/shrey-tsec/EXP3.git

error: remote origin already exists.

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git origin git: 'origin' is not a git command. See

'git --help'.

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git show origin fatal: ambiguous argument 'origin': unknown revision or path not in the working tree.

Use '--' to separate paths from revisions, like this:

'git <command> [<revision>...] -- [<file>...]'

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git remote show origin

\* remote origin

Fetch URL: https://github.com/shrey-tsec/SEPM.git

Push URL: https://github.com/shrey-tsec/SEPM.git

HEAD branch: (unknown)

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

\$ git remote remove origin

15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)

```
$ git remote show origin fatal: 'origin' does not
appear to be a git repository fatal: Could not read
from remote repository.
```

Please make sure you have the correct access rights and the repository exists.

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git remote add origin https://github.com/shrey-tsec/EXP3.git
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git remote show origin
* remote origin
  Fetch URL: https://github.com/shrey-tsec/EXP3.git
  Push URL: https://github.com/shrey-tsec/EXP3.git
  HEAD branch: (unknown)
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (master)
$ git branch -M main
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ git push -u origin main Enumerating
objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 20 threads Compressing
objects: 100% (5/5), done.
Writing objects: 100% (8/8), 691 bytes | 691.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/shrey-tsec/EXP3.git *
[new branch]      main -> main branch 'main'
set up to track 'origin/main'.
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ git pull Already
up to date.
```

```
15L@203-06 MINGW64
~/Desktop/shrey-
git/git-demo-
project (main)
```

```
$ git pull remote: Enumerating objects: 5,
done. remote: Counting objects: 100% (5/5),
done. remote: Compressing objects: 100% (2/2),
done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 957 bytes | 239.00 KiB/s, done.
From https://github.com/shrey-tsec/EXP3
   298a0e6..7242627  main      -> origin/main
Updating 298a0e6..7242627
Fast-forward index.html
| 2 +-
```

1 file changed, 1 insertion(+), 1 deletion(-)

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ git log --oneline origin/main
7242627 (HEAD -> main, origin/main) update index.html
298a0e6 express commit bef012b
express commit d489bcf first
commit
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ $ git fetch bash: $:
command not found
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ git fetch
```

```
15L@203-06 MINGW64 ~/Desktop/shrey-git/git-demo-project (main)
$ git merge origin/main Already
up to date.
```





```

C:\Users\aditya\Documents>git pull
C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull --remote= <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=remote/<branch> master

C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git push -u origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git remote show origin
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git remote add origin https://github.com/AdityaKosla/T580.git
C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git remote show origin
remote origin
  fetch URL: https://github.com/AdityaKosla/T580.git
  push URL: https://github.com/AdityaKosla/T580.git
  HEAD branch: main
  remote branch:
    main new (next fetch will store in remote/origin)

C:\Users\aditya\Documents>git -docs/git-dsw project (master)
$ git pull
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (26/26), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 26 (Delta 2), reused 0 (Delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (26/26), 44.42 KB | 1.68 MB/s, done.
From https://github.com/AdityaKosla/T580
 * [new branch]      main       -> origin/main
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

```

## CONCLUSION:

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