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Batch: T13

Roll no: 61

EXPERIMENT – 3

<u>AIM</u> - 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)
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>
       Tue Jan 23 13:43:06 2024 +0530
Date:
     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)
"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>
       Tue Jan 23 13:41:06 2024 +0530
Date:
     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 <br/>branch>
                         create and checkout a new branch
   -B <branch>
                         create/reset and checkout a branch
   -1
                         create reflog for new branch
   --guess
                         second guess 'git checkout <no-such-branch>' (default)
                         use overlay mode (default)
   --overlay
   -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
                     --overwrite-ignore update
unparented branch
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
                     checkout their version for unmerged files
   -3, --theirs
                         select hunks interactively
   -p, --patch
   --ignore-skip-worktree-bits
                                                         do not limit
pathspecs 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
```

```
$ 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)
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-qit/qit-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 *
                  main -> main branch 'main'
[new branch]
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.
```

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### Additional Content of the Conten
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CONCLUSION:

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