

DEVOPS LAB

Practical 3

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

Output:

1. \$ git config --global user.name "<username> "

```
Admin@DESKTOP-PMNF7KV MINGW64 ~  
$ git config --global user.name "studentfcrit"
```

2. \$ git config --global user.email "<email> "

```
Admin@DESKTOP-PMNF7KV MINGW64 ~  
$ git config --global user.email "student@gmail.com"
```

```
[user]  
  name = studentfcrit  
  email = student@gmail.com
```

3. \$ git init

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)  
$ git init  
Initialized empty Git repository in C:/Users/Admin/student/.git/
```

4. \$ git add <filenames>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)  
$ git add index.html
```

5. \$ git commit -m "<enter commit message>"

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)  
$ git commit -m "initial commit"  
[master (root-commit) 9489d0a] initial commit  
1 file changed, 13 insertions(+)  
create mode 100644 index.html
```

6. \$ git log

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git log
commit 9489d0af46223ace60b9364900f33ea29c7003b0 (HEAD -> master)
Author: studentfcrit <student@gmail.com>
Date:   Mon Oct 2 13:07:45 2023 +0530

    initial commit
```

7. \$ git branch

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git branch dev

Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git branch
  dev
* master
```

8. \$ git checkout <branch name>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git checkout dev
Switched to branch 'dev'
```

9. \$ git status

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   hello.html

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
```

10. \$ git merge <branch name>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (dev)
$ git merge student/multiply
Updating 7c553ec..9a9b9b3
Fast-forward
 multiply.html | 17 ++++++
 1 file changed, 17 insertions(+)
 create mode 100644 multiply.html
```

11. \$ git remote add <remote name> <remote url>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git remote add origin https://github.com/Capricorn14/student.git
```

12. \$ git push <remote name> <branch name>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (main)
$ git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (12/12), 1.32 KiB | 676.00 KiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Capricorn14/student.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

13. \$ git clean

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (main)
$ git clean -n
```

14. \$ git remote -v

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (master)
$ git remote -v
origin https://github.com/Capricorn14/student.git (fetch)
origin https://github.com/Capricorn14/student.git (push)
```

15. \$ git clone <repository url>

```
Admin@DESKTOP-PMNF7KV MINGW64 ~/student (main)
$ git clone https://github.com/Capricorn14/student.git
Cloning into 'student'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 12 (delta 2), reused 12 (delta 2), pack-reused 0
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (2/2), done.
```