

## GIT Assignment 2

### Problem Statement :

The Advanced Git Guide: Git Stash, Reset, Rebase, and More. developer should have a good understanding of version control, and Git has become the de-facto standard for version control in software development.

### Solution:

#### *GIT Stash :*

1. Git stash:

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git stash
warning: in the working copy of 'hi.txt', LF will be replaced by CRLF the next time Git touches it
Saved working directory and index state WIP on b1: c595e48 A liittle tiding up
```

2. List all stashes :

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git stash list
stash@{0}: WIP on b1: c595e48 A liittle tiding up
stash@{1}: WIP on b1: 7c506a3 this is the first commit
```

3. Apply the most recently stashed changes and remove them from the stash list.:

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git stash pop
On branch b1
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:    hi.txt
    modified:   hi.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  GIT Assignment 1.docx
  GIT Assignment 1.pdf
  ~$T Assignment 1.docx

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (e393ea25a6dd41950e40604c1a5d2e55375bba33)
```

4. Apply the most recently stashed changes but keep them in the stash list :

```
chennai Campus/Desktop/UST/Module 2 (b1)
$ git stash apply
On branch b1
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.txt
        deleted:    hi.txt
        modified:   hi.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        GIT Assignment 1.docx
        GIT Assignment 1.pdf
        ~$T Assignment 1.docx

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

5. Remove a specific stash :

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git stash drop stash@{0}
Dropped stash@{0} (055f98ee294a446200ec73f234ebb51619308643)
```

### ***GIT Reset:***

1.Unstage changes in a specific file

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git reset HEAD "hello.txt"
Unstaged changes after reset:
M      hello.txt
```

### ***GIT Rebase:***

1. Rebase current branch onto a new base commit :

```
Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git checkout b1
Already on 'b1'

Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$ git rebase master
Current branch b1 is up to date.

Sri ram Kaushik@LAPTOP-HAKQIOL9 MINGW64 ~/OneDrive - Amrita Vishwa Vidyapeetham-
Chennai Campus/Desktop/UST/Module 2 (b1)
$
```