



## **Experiment -3.2**

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Branch: CSE(DEVOPS) Section/Group:22BCD-1/A

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Subject Name: GIT AND GITHUB Subject Code: 22CSH-293

1. Aim/Overview of the practical:. Understanding the various reset modes in GitHub.

2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

## 4. Steps for experiment:

- 1. Create a file on local device and open that folder with Git Bash.
- 2. Create a repository on Github with Exp9 name and copy the http link.
- 3. Now open the file "abc.c" using "vi filename" and edit the file.

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9 (master)
$ git clone https://github.com/sneha2003m/exp9.git
cloning into 'exp9'...
warning: You appear to have cloned an empty repository.

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9 (master)
$ cd exp9

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git status
On branch main

No commits yet
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Deskt
op/exp9/exp9 (main)
$ vi abc.txt
```







4. Now add and commit the file using "git add ." and "git commit -m"messaage"".

**5.** Repeat step 3 and 4 for multiple time to have multiple commits.

```
MINGW64:/c/Users/sneha/OneDrive/Deskton/exp9/exp9
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ vi abc.txt
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git add .
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git commit -m"second commit"
[main 6f88ddd] second commit
1 file changed, 1 insertion(+), 1 deletion(-)
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ vi abc.txt
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git add .
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git commit -m"third commit"
[main d96c2cf] third commit
 1 file changed, 2 insertions(+), 1 deletion(-)
```







```
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)
nothing to commit, working tree clean
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
 git log
commit d96c2cf367e7b07536def2c6155fa73f1f1453a8 (HEAD -> main)
Author: sneha <sneha.mehrotra1111@gmail.com>
       Mon Apr 8 22:03:50 2024 +0530
    third commit
commit 6f88ddd429181d615260f99be7c4401c1fb60245
Author: sneha <sneha.mehrotra1111@gmail.com>
Date:
       Mon Apr 8 22:02:57 2024 +0530
    second commit
commit 99d3ad25fbee9b63fc29f040f0fd17f8c8b95515
Author: sneha <sneha.mehrotra1111@gmail.com>
       Mon Apr 8 22:00:50 2024 +0530
    first commit
```

**6.** Now perform soft rest by "git reset –soft Head~1" which will bring head to previous commit and bring the commit to stagging area.

```
Sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git reset --soft HEAD~1

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ vi abc.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git status
on branch main
Your branch is based on 'origin/main', but the upstream is gone.
    (use "git branch --unset-upstream" to fixup)

Changes to be committed:
    (use "git restore --staged <file>..." to unstage)
    modified: abc.txt
```







```
MINGW64:/c/Users/sneha/OneDrive/Desktop/exp9/exp9
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:
                     abc.txt
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git log
commit 6f88ddd429181d615260f99be7c4401c1fb60245 (HEAD -> main)
Author: sneha <sneha.mehrotra1111@gmail.com>
        Mon Apr 8 22:02:57 2024 +0530
    second commit
commit 99d3ad25fbee9b63fc29f040f0fd17f8c8b95515
Author: sneha <sneha.mehrotra1111@gmail.com>
        Mon Apr 8 22:00:50 2024 +0530
Date:
    first commit
```

7. Now perform soft rest by "git reset —mixed Head~1" which will bring head to previous commit and unstage the file which be result in untrack file.







**8.** Now perform soft rest by "git reset —hard Head~1" which will bring head to previous commit and without affecting the file formet and remove all changes done in commit.

```
MINGW64:/c/Users/sneha/OneDrive/Desktop/exp9/exp9
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git add .
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git commit -m"commit"
[main e00050f] commit
1 file changed, 2 insertions(+), 1 deletion(-)
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
 git reset --hard HEAD~1
HEAD is now at 99d3ad2 first commit
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)
nothing to commit, working tree clean
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp9/exp9 (main)
$ 1s
abc.txt
```

## 5. Result/Output/Writing Summary:

In this experiment we have learn about reset and types of reset.

## **Learning outcomes (What I have learnt):**

- 1. Learnt the difference between reset and revert.
- 2. Learnt how to make the reset.
- 3. Learnt about type of reset.
- 4. Learnt about soft reset.
- 5. Also learnt about mixed and hard reset.







Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

