



## **Experiment-3.3**

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

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Subject Name: Git and GitHub Subject Code: 22CSH-293

1. Aim/Overview of the practical: work with your history in git.

**2. Task to be done:** git histories etc.

3. Steps for Experiment: -

1). Create a new repository in your local machine i.e. (**mkdir** <repo\_name>), or go to the already created repository by (**cd** <repo\_name>).

```
adarsh@ASUS MINGW64 ~ (master)
$ mkdir expr10
adarsh@ASUS MINGW64 ~ (master)
$ cd expr10
```

2). Now initialize a empty repository by (git init).

```
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git init
Initialized empty Git repository in C:/Users/adars/expr10/.git/
```

3). After that create a file and do 3 commits and add and commit the changes (vi <file name> & git add . & git commit -m "your message").

```
adarsh@ASUS MINGW64 ~/expr10 (master)

$ vi exp10.txt

adarsh@ASUS MINGW64 ~/expr10 (master)

$ git add .

warning: in the working copy of 'exp10.txt', LF will be replaced by CRLF the next time Git touches it

adarsh@ASUS MINGW64 ~/expr10 (master)

$ git commit -m "first commit"

[master (root-commit) e5eba7e] first commit

1 file changed, 2 insertions(+)

create mode 100644 exp10.txt
```







```
adarsh@ASUS MINGW64 ~/expr10 (master)
$ vi exp10.txt
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git add .
warning: in the working copy of 'exp10.txt', LF will be replaced by CRLF the
 next time Git touches it
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git commit -m "second commit line 3 added"
[master ba94e6e] second commit line 3 added
 1 file changed, 1 insertion(+)
adarsh@ASUS MINGW64 ~/expr10 (master)
$ vi exp10.txt
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git add .
warning: in the working copy of 'exp10.txt', LF will be replaced by CRLF the
 next time Git touches it
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git commit -m "third commit 4th line added"
[master e377696] third commit 4th line added
1 file changed, 1 insertion(+)
```

4). Now let's execute amend by (git commit --amend).

```
adarsh@ASUS MINGW64 ~/expr10 (master)
 git commit --amend
[master a9cdc57] third commit 4th line added after 3rd commit
Date: Thu Apr 11 23:10:19 2024 +0530
 1 file changed, 1 insertion(+)
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      C: > Users > adars > expr10 > .git > 🔷 COMMIT_EDITMSG
        1 third commit 4th line added
 \mathcal{Q}
            after 3rd commit
            # Please enter the commit message for your changes. Lines starting
 مړ
            # with '#' will be ignored, and an empty message aborts the commit.
4
            # On branch master
# modified: exp10.txt
```







5). Now execute git rebase to change the multiple commits by (git rebase -i HEAD~2).

```
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git rebase -i HEAD~2
Successfully rebased and updated refs/heads/master.
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git rebase -i HEAD~2
error: invalid command 'adding'
error: invalid line 3: adding some para
You can fix this with 'git rebase --edit-todo' and then run 'git rebase --co
Or you can abort the rebase with 'git rebase --abort'.
adarsh@ASUS MINGW64 ~/expr10 (master|REBASE)
$ git rebase -i HEAD~1
fatal: It seems that there is already a rebase-merge directory, and
I wonder if you are in the middle of another rebase. If that is the
case, please try
        git rebase (--continue | --abort | --skip)
If that is not the case, please
        rm -fr ".git/rebase-merge"
and run me again. I am stopping in case you still have something
valuable there.
```

6). Now reset the head by (git reset HEAD^).

\$ git rebase --abort

adarsh@ASUS MINGW64 ~/expr10 (master|REBASE)







7). Now add and commit your all the changes that you have made.

```
adarsh@ASUS MINGW64 ~/expr10 (master)
$ cat exp10.txt
this file is for experiment 10
adding some content in the file.
adding some line in the file i.e. line 3
adding another line i.e. line 4

adarsh@ASUS MINGW64 ~/expr10 (master)
$ git add .

adarsh@ASUS MINGW64 ~/expr10 (master)
$ git commit -m "final commit"
[master 7b387d2] final commit
1 file changed, 1 insertion(+)
```

8). Now execute git log by (git log -pretty=format: %h -%s).

```
adarsh@ASUS MINGW64 ~/expr10 (master)
$ git log --pretty=format:"%h - %s"
7b387d2 - final commit
ba94e6e - second commit line 3 added
e5eba7e - first commit
```

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

- **1.** Learnt about Git.
- **2.** Learnt about GitHub.
- 3. Learnt about various git histories commands that can be applied on Git Bash.
- **4.** Learnt about git reset, amend, log, pretty.

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

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

