

## Git Assignment

### Ex -01 First Commit

```
Arun8@ArunHP MINGW64 ~
$ cd e:

Arun8@ArunHP MINGW64 /e
$ cd my_git_projects/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-1
Initialized empty Git repository in E:/my_git_projects/Exercise-1/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-1/

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ touch index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ nano index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ git commit -m "Initial Message"
[master (root-commit) 563a003] Initial Message
 1 file changed, 1 insertion(+)
 create mode 100644 index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-1 (master)
$ |
```

### Ex -02 Commit only one file

```
Arun8@ArunHP MINGW64 ~
$ cd e:

Arun8@ArunHP MINGW64 /e
$ cd my_git_projects/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-2
Initialized empty Git repository in E:/my_git_projects/Exercise-2/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-2/

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ touch index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ touch about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ nano index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ nano about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ git add about.html
warning: in the working copy of 'about.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ git commit -m 'File about.html added'
[master (root-commit) 959ce14] File about.html added
 1 file changed, 1 insertion(+)
 create mode 100644 about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (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)

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-2 (master)
$ |
```

## Ex -03 Modify Last Commit

```
Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-3
Initialized empty Git repository in E:/my_git_projects/Exercise-3/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-3

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ touch index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ nano index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git commit -m "adding index.html"
[master (root-commit) f79b7b7] adding index.html
1 file changed, 1 insertion(+)
create mode 100644 index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ touch about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ nano about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git add about.html
warning: in the working copy of 'about.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git commit --amend -m "Adding index.html and about.html"
[master 7376e74] Adding index.html and about.html
Date: Fri Mar 17 22:31:39 2023 -0400
2 files changed, 2 insertions(+)
create mode 100644 about.html
create mode 100644 index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git status
On branch master
nothing to commit, working tree clean

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ git log
commit 7376e746a69c8e213ad2e17f988bf8e1801459c9 (HEAD -> master)
Author: vishali <arun88@hotmail.com>
Date: Fri Mar 17 22:31:39 2023 -0400

    Adding index.html and about.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-3 (master)
$ |
```

## EX-04 Create git ignore file

```
Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-4
Initialized empty Git repository in E:/my_git_projects/Exercise-4/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-4

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ touch gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ nano gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ rm gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ touch .gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ ls

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ nano .gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ git add .gitignore
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ git commit -m "gitignore file added"
[master (root-commit) e5e5d13] gitignore file added
1 file changed, 5 insertions(+)
create mode 100644 .gitignore

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ git status
On branch master
nothing to commit, working tree clean

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-4 (master)
$ |
```

## EX-05 Save the work with Stash

```
Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-5
Initialized empty Git repository in E:/my_git_projects/Exercise-5/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-5

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ touch index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git commit -m "adding index"
[master (root-commit) 061b84a] adding index
1 file changed, 1 insertion(+)
create mode 100644 index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ touch about.html random.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git stash
No local changes to save

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git add about.html random.html
warning: in the working copy of 'about.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'random.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git stash
Saved working directory and index state WIP on master: 061b84a adding index

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git status
On branch master
nothing to commit, working tree clean

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-5 (master)
$ git stash list
stash@{0}: WIP on master: 061b84a adding index
```

## EX -06 Reset Previous Commit Keeping changes. (Soft Reset)

```
Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-6 (master)
$ git log
commit 79116c9abc742f7b1fd56b500d2d42c24798f31e (HEAD -> master)
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:01:30 2023 -0400

    adding random.html

commit 36ea82e427f8a5acd18a9fab36b69187bf3c789
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:00:49 2023 -0400

    adding about.html

commit 6e36b8b8c9da9676058301c2633a260d52af7cdf
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 22:59:54 2023 -0400

    adding index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-6 (master)
$ git reset 36ea82e427f8a5acd18a9fab36b69187bf3c789

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-6 (master)
$ git log
commit 36ea82e427f8a5acd18a9fab36b69187bf3c789 (HEAD -> master)
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:00:49 2023 -0400

    adding about.html

commit 6e36b8b8c9da9676058301c2633a260d52af7cdf
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 22:59:54 2023 -0400

    adding index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-6 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

## EX-07 Reset Previous Commit (Hard Reset)

```
Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-7 (master)
$ git log
commit a00aadeffc4efa826ff0847e3353eaa4dc842dae8 (HEAD -> master)
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:08:14 2023 -0400

    commit 3

commit 55fa2f31550783f916f5198b437ffeed49e8feac
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:07:53 2023 -0400

    commit 2

commit f20564225e4c72cf129ed1a4b805a7b2385c1aab
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:07:29 2023 -0400

    commit 1

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-7 (master)
$ git reset --hard 55fa2f31550783f916f5198b437ffeed49e8feac
HEAD is now at 55fa2f3 commit 2

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-7 (master)
$ git log
commit 55fa2f31550783f916f5198b437ffeed49e8feac (HEAD -> master)
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:07:53 2023 -0400

    commit 2

commit f20564225e4c72cf129ed1a4b805a7b2385c1aab
Author: vishali <arun88@hotmail.com>
Date:   Fri Mar 17 23:07:29 2023 -0400

    commit 1

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-7 (master)
$ git status
On branch master
nothing to commit, working tree clean

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-7 (master)
$
```

## Ex 08: Merge branch (No Conflicts)

```
Arun8@ArunHP MINGW64 /e/my_git_projects
$ git init Exercise-8
Initialized empty Git repository in E:/my_git_projects/Exercise-8/.git/

Arun8@ArunHP MINGW64 /e/my_git_projects
$ cd Exercise-8

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git commit -m "add index"
[master (root-commit) 5c4cd5b] add index
1 file changed, 1 insertion(+)
create mode 100644 index.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git branch my-feature

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git checkout my-feature
Switched to branch 'my-feature'

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (my-feature)
$ git add about-us.html
warning: in the working copy of 'about-us.html', LF will be replaced by CRLF the next time Git touches it

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (my-feature)
$ git commit -m "add abt to branch"
[my-feature ab03d36] add abt to branch
1 file changed, 1 insertion(+)
create mode 100644 about-us.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (my-feature)
$ git checkout master
Switched to branch 'master'

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git merge
HEAD      master      my-feature

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$ git merge my-feature
Updating 5c4cd5b..ab03d36
Fast-forward
 about-us.html | 1 +
1 file changed, 1 insertion(+)
create mode 100644 about-us.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-8 (master)
$
```

## EX 09: Merge branch (Conflicts)

```
Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-9 (master)
$ git merge my-feature
Merge made by the 'ort' strategy.
 about-us.html | 1 +
1 file changed, 1 insertion(+)
create mode 100644 about-us.html

Arun8@ArunHP MINGW64 /e/my_git_projects/Exercise-9 (master)
$
```