

EXERCISE 01

Create your first Repository and Commit

Exercise 1: Create your first Commit.

Task:

- Initialize your Repository: `git init project Exercise-1`
- Create a file with name `index.html`
- Write code in newly created file
- Stage `index.html`
- Commit with message '**Initial Message.**'



```

$ cd C:/Users/slath/Desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git
$ git init exercise1
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise1/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git
$ cd exercise1

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ touch index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ vi index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ cat index.html
<!-- I have copied this code from weschools -->
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ git commit -m "Initial Message"
[master (root-commit) 7f156a8] Initial Message
 1 file changed, 13 insertions(+)
 create mode 100644 index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ git status
On branch master
nothing to commit, working tree clean

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ git log
commit 7f156a8d0cd61d35d3b76ca77856ceb56925bf (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date: Sun May 9 11:10:36 2021 -0400

    Initial Message

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise1 (master)
$ |

```

EXERCISE 02

Commit only one file

Exercise 2: Commit only one file.

Task:

- Initialize your Repository: `git init Exercise-2`
- Create a files with names `index.html` and `about.html`
- Add code in both files.
- Stage only one file.
- Commit with message: **'File x added.'**



```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise2
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise2/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise2

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ touch index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ touch about.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ vi index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ cat index.html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Index.html</h1>

</body>
</html>

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ vi about.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ cat about.html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a about.html</h1>

</body>
</html>
```

```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html
    index.html

nothing added to commit but untracked files present (use "git add" to track)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git status
On branch master

No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git commit -m "File index.html added"
[master (root-commit) fa9bbf1] File index.html added
1 file changed, 11 insertions(+)
create mode 100644 index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git log
commit fa9bbf1b90592927aa40999a9fdc912eeb466b81 (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date:   Sun May 9 11:26:18 2021 -0400

    File index.html added

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise2 (master)
$ git status
On branch master

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html

nothing added to commit but untracked files present (use "git add" to track)
```

EXERCISE 03

Modify last commit

Exercise 3: Modify last commit.

Task:

- Initialize your Repository: `git init project Exercise-3`
- Create a file with name `index.html`
- Write code in newly created file
- Stage `index.html`
- Commit with message 'adding index.html.'
- Add new `about.html` file with some code.
- Now modify message of previous commit as 'Adding index.html and about.html 'and add `about.html` file in previous commit.

```
slath@LAPTOP-2BBLEMHN MINGW64 ~  
$ cd C:/Users/slath/Desktop/python_training/git  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git  
$ git init exercise3  
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise3/.git/  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git  
$ cd exercise3  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ touch index.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ vi index.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ git status  
On branch master  
  
No commits yet  
  
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)  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ git add index.html  
warning: LF will be replaced by CRLF in index.html.  
The file will have its original line endings in your working directory  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ git commit -m "Adding index.html"  
[master (root-commit) a811b4e] Adding index.html  
1 file changed, 11 insertions(+)  
create mode 100644 index.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ git log  
commit a811b4e5b92102b0c38db5dae1337336c82c3607 (HEAD -> master)  
Author: slathiya444 <slathiya444@gmail.com>  
Date: Sun May 9 11:39:18 2021 -0400  
  
    Adding index.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ touch about.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ vi about.html  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)  
$ git add about.html  
warning: LF will be replaced by CRLF in about.html.
```

```
slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   about.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)
$ git log
commit a811b4e5b92102b0c38db5dae1337336c82c3607 (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date:   Sun May 9 11:39:18 2021 -0400

    Adding index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)
$ git commit --amend -m "Adding index.html and about.html"
[master dcfee48] Adding index.html and about.html
Date: Sun May 9 11:39:18 2021 -0400
2 files changed, 24 insertions(+)
create mode 100644 about.html
create mode 100644 index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)
$ git log
commit dcfee48cf601611619b9680f735bf386821170e6 (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date:   Sun May 9 11:39:18 2021 -0400

    Adding index.html and about.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/Desktop/python_training/git/exercise3 (master)
$ |
```


EXERCISE 04

Create git ignore file

Exercise 4: Create git ignore file

Task:

- Initialize your Repository: git init Exercise-4
- Create a gitignore file that will ignore
 - all files with 'exe' extension
 - all files with 'o' extension
 - all files with 'jar' extension
 - the whole libraries directory



```
slath@LAPTOP-2BBLEMHN MINGW64 ~  
$ cd ~/desktop/python_training/git  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git  
$ git init exercise4  
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise4/.git/  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git  
$ cd exercise4  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ touch .gitignore  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ vi .gitignore  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ git add .gitignore  
warning: LF will be replaced by CRLF in .gitignore.  
The file will have its original line endings in your working directory  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ git commit -m "Adding .gitignore file"  
[master (root-commit) 146acc7] Adding .gitignore file  
1 file changed, 4 insertions(+)  
create mode 100644 .gitignore  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ cat .gitignore  
*.exe  
*.o  
*.jar  
*.lib  
  
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise4 (master)  
$ |
```

EXERCISE 05

Save your work with stash

Exercise 5: Save your work with stash.

Task:

- Initialize your Repository: `git init Exercise-5`
- Add some random files with code
- Now use `git stash` command to save required files from above files.

(For this exercise don't send repository just submit git commands and output of `git stash list`)



```

slath@LAPTOP-2BBLEMHN MINGW64 ~
$ cd ~/desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise5
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise5/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise5

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ echo "Hello, this is index.txt" > index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ echo "Hello, this is about.txt" > about.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git add index.txt
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git status
On branch master

No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        about.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git commit -m "Adding index.txt"
[master (root-commit) 551f62c] Adding index.txt
1 file changed, 1 insertion(+)
create mode 100644 index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git stash "Added the file index.txt"
fatal: unknown subcommand: Added the file index.txt

usage: git stash list [<options>]
       or: git stash show [<options>] [<stash>]
       or: git stash drop [-q|--quiet] [<stash>]
       or: git stash ( pop | apply ) [--index] [-q|--quiet] [<stash>]
       or: git stash branch <branchname> [<stash>]
       or: git stash clear
       or: git stash [push [-p|--patch] [-k|--[no-]keep-index] [-q|--quiet]
           [-u|--include-untracked] [-a|--all] [-m|--message <message>]
           [--pathspecc-from-file=<file> [--pathspecc-file-nul]]
           [--] [<pathspecc>...]]

```

```

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git stash "Added the file index.txt"
fatal: unknown subcommand: Added the file index.txt

usage: git stash list [<options>]
      or: git stash show [<options>] [<stash>]
      or: git stash drop [-q|--quiet] [<stash>]
      or: git stash ( pop | apply ) [--index] [-q|--quiet] [<stash>]
      or: git stash branch <branchname> [<stash>]
      or: git stash clear
      or: git stash [push [-p|--patch] [-k|--[no-]keep-index] [-q|--quiet]
          [-u|--include-untracked] [-a|--all] [-m|--message <message>]
          [--paths-spec-from-file=<file> [--paths-spec-file-nul]]
          [--] [<paths-spec>...]]
      or: git stash save [-p|--patch] [-k|--[no-]keep-index] [-q|--quiet]
          [-u|--include-untracked] [-a|--all] [<message>]

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git branch add

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (master)
$ git checkout add
Switched to branch 'add'

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git diff
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory
diff --git a/index.txt b/index.txt
index ca7f23d..f7c29c5 100644
--- a/index.txt
+++ b/index.txt
@@ -1,3 @@
-Hello, this is index.txt
+Hello, this is
+
+Index

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git stash save "Updated index.txt"
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory
Saved working directory and index state On add: Updated index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git diff

```

```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git stash save "Updated index.txt"
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory
Saved working directory and index state On add: Updated index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git diff

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git status
On branch add
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.txt

nothing added to commit but untracked files present (use "git add" to track)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git stash list
stash@{0}: On add: Updated index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ cat index.txt
Hello, this is index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ git stash apply stash@{0}
On branch add
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.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.txt

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

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ cat index.txt
Hello, this is

Index

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise5 (add)
$ |
```

EXERCISE 06

Reset Previous Commit Keeping changes. (Soft Reset)

Exercise 6: Reset Previous Commit Keeping changes. (Soft Reset)

Task:

- Initialize your Repository: `git init` Exercise-6.
- Do some series of commits.
- Now use `git reset` command to reset one of the commit and keep changes in staging area.

In answer also add output of `git status` command.



```

slath@LAPTOP-2BBLEMHN MINGW64 ~
$ cd ~/desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise6
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise6/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise6

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ echo "First line in index.txt" > index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ echo "First line in about.txt" > about.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        about.txt
        index.txt

nothing added to commit but untracked files present (use "git add" to track)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git add .
warning: LF will be replaced by CRLF in about.txt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git commit -m "First Commit"
[master (root-commit) 106b0c0] First Commit
 2 files changed, 2 insertions(+)
 create mode 100644 about.txt
 create mode 100644 index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git log --oneline
106b0c0 (HEAD -> master) First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ vi index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ vi index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ vi about.txt

```



```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git status
On branch master
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:   about.txt
        modified:   index.txt

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

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git add .
warning: LF will be replaced by CRLF in about.txt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git commit -m "Second Commit"
[master bc99351] Second Commit
 2 files changed, 4 insertions(+)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git log --oneline
bc99351 (HEAD -> master) Second Commit
106b0c0 First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ vi index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git add .
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git commit -m "Last commit"
[master 200f12c] Last commit
 1 file changed, 2 insertions(+)
```

```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git log
commit 200f12c47caa5d394542a1a8a558927164b18811 (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date: Sun May 9 13:32:14 2021 -0400

    Last commit

commit bc9935100e863b36dea248d286fabf25eec149dc
Author: slathiya444 <slathiya444@gmail.com>
Date: Sun May 9 13:31:01 2021 -0400

    Second Commit

commit 106b0c06edac30851e58a6a80c2b495543ad79dd
Author: slathiya444 <slathiya444@gmail.com>
Date: Sun May 9 13:28:37 2021 -0400

    First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git reset --soft HEAD~2

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git log
commit 106b0c06edac30851e58a6a80c2b495543ad79dd (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date: Sun May 9 13:28:37 2021 -0400

    First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   about.txt
        modified:   index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise6 (master)
$ |
```

EXERCISE 07

Reset Previous Commit (Hard Reset)

Exercise 7: Reset Previous Commit (Hard Reset).

Task:

- Initialize your Repository: `git init Exercise-7`.
- Do some series of commits.
- Use `git reset` command to reset one of the commit without keeping changes.



```

slath@LAPTOP-2BBLEMHN MINGW64 ~
$ cd ~/desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise7
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise7/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise7

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ echo "First line in index.txt" > index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ echo "First line in about.txt" > about.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        about.txt
        index.txt

nothing added to commit but untracked files present (use "git add" to track)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git add .
warning: LF will be replaced by CRLF in about.txt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git commit -m "First Commit"
[master (root-commit) 3f0b9f8] First Commit
 2 files changed, 2 insertions(+)
 create mode 100644 about.txt
 create mode 100644 index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git log
commit 3f0b9f8ae70bf731b35040ee7a0bad510df62abc (HEAD -> master)
Author: slathiya444 <slathiya444@gmail.com>
Date:   Sun May 9 13:42:50 2021 -0400

    First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ vi index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ vi about.txt

```

```

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git add .
warning: LF will be replaced by CRLF in about.txt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git commit -m "Second Commit"
[master dde33c2] Second Commit
2 files changed, 5 insertions(+)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ vi index.txt

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git status
On branch master
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.txt

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

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git add index.txt
warning: LF will be replaced by CRLF in index.txt.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git commit -m "Last Commit"
[master 15079f5] Last Commit
1 file changed, 2 insertions(+)

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git log --oneline
15079f5 (HEAD -> master) Last Commit
dde33c2 Second Commit
3f0b9f8 First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git reset --hard HEAD~1
HEAD is now at dde33c2 Second Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git log --oneline
dde33c2 (HEAD -> master) Second Commit
3f0b9f8 First Commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ git status
On branch master
nothing to commit, working tree clean

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise7 (master)
$ |

```

EXERCISE 08

Merge branch (No Conflicts)

Exercise 8: Merge branch (No Conflicts).

Task:

- Initialize your Repository: `git init Exercise-8`
- Create `index.html` file add some code.
- Make Commit.
- Create new branch from master branch with name **my-feature**.
- Add `about-us.html` file with code and commit changes in my-feature branch.
- Now checkout master branch.
- Merge my-feature branch into master.

```
slath@LAPTOP-2BBLEMHN MINGW64 ~
$ cd ~/desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise8
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise8/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise8

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ touch index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ vi index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git commit -m "Adding index.html"
[master (root-commit) 944a761] Adding index.html
1 file changed, 12 insertions(+)
create mode 100644 index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git branch my-feature

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git checkout my-feature
Switched to branch 'my-feature'

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (my-feature)
$ touch about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (my-feature)
$ vi about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (my-feature)
$ git add .
warning: LF will be replaced by CRLF in about-us.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (my-feature)
$ git commit -m "Adding about-us.html from my-feature branch"
[my-feature f111f16] Adding about-us.html from my-feature branch
1 file changed, 12 insertions(+)
create mode 100644 about-us.html
```

```
slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (my-featur
e)
$ git checkout master
Switched to branch 'master'

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git branch -a
* master
  my-feature

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ git merge my-feature
Updating 944a761..f111f16
Fast-forward
 about-us.html | 12 ++++++++
 1 file changed, 12 insertions(+)
 create mode 100644 about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ ls
about-us.html  index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise8 (master)
$ |
```


EXERCISE 09

Merge branch (Conflicts)

Exercise 9: Merge branch (Conflicts).

Task:

- Initialize your Repository: `git init Exercise-9`
- Create `index.html` file add some code.
- Make Commit.
- Create new branch from master branch with name `my-feature`.
- Add `about-us.html` file with code
- Make changes in `index.html`
- Commit changes in `my-feature` branch.
- Now checkout master branch.
- Do some code changes in `index.html`
- Commit changes.
- Now merge `my-feature` branch into master.
- You will get conflicts for `index.html` file. Resolve conflict by selecting both changes for the same `index.html` file.

```
slath@LAPTOP-2BBLEMHN MINGW64 ~
$ cd ~/desktop/python_training/git

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ git init exercise9
Initialized empty Git repository in C:/Users/slath/Desktop/python_training/git/exercise9/.git/

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git
$ cd exercise9

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ touch index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ vi index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git commit -m "Commit:index.html"
git: 'commit' is not a git command. See 'git --help'.

The most similar command is
    commit

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git commit -m "Commit:index.html"
[master (root-commit) 40730a0] Commit:index.html
1 file changed, 12 insertions(+)
create mode 100644 index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git branch my-feature

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git checkout my-feature
Switched to branch 'my-feature'

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ touch about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ vi about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ vi index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ git status
On branch my-feature
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
```

```

    (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  about-us.html

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

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ git add .
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in about-us.html.
The file will have its original line endings in your working directory

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ git commit -m "commit from my-feature branch"
[my-feature 75978e7] commit from my-feature branch
2 files changed, 13 insertions(+), 1 deletion(-)
create mode 100644 about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ git log --oneline
75978e7 (HEAD -> my-feature) commit from my-feature branch
40730a0 (master) Commit:index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (my-feature)
$ git checkout master
Switched to branch 'master'

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ git merge my-feature
Updating 40730a0..75978e7
Fast-forward
 about-us.html | 12 ++++++++
 index.html    |  2 +-
 2 files changed, 13 insertions(+), 1 deletion(-)
 create mode 100644 about-us.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ ls
about-us.html  index.html

slath@LAPTOP-2BBLEMHN MINGW64 ~/desktop/python_training/git/exercise9 (master)
$ cat index.html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a git assignment</h1>

</body>
</html>

```

*I have used YouTube for solving my doubts for this assignment.