

Git Assignment

Exercise 1

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**'

Screenshots :

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-1
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-1/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-1/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ touch index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ cat index.html
<!DOCTYPE html>
<html>
  <body>
    <h1>My first heading</h1>
    <p>My first paragraph</p>
  </body>
</html>

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ git commit -m "Initial Message"
[master (root-commit) c500efe] Initial Message
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ git status
On branch master
nothing to commit, working tree clean

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ git log
commit c500efeee7ebb0d8ec6fd678f91f33a19dae73fc (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 18:49:55 2021 -0500

  Initial Message

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-1 (
master)
$ |
```

Exercise 2

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.**'

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-2
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-2/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-2
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ ls
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ ls -a
./ ../ .git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ touch {index,about}.html
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ ls
about.html index.html
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ vi index.html
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ vi about.html
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ cat index.html
<!DOCTYPE html>
<html>
  <body>
    <h1>My first heading</h1>
    <p1>My first paragraph</p1>
  </body>
</html>
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ cat about.html
<!DOCTYPE html>
<html>
  <body>
    <h1>My first heading</h1>
    <p1>My first paragraph</p1>
    <p2>My second paragraph</p2>
  </body>
</html>
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ git add about.html
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ git status
On branch master
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ git status
On branch master

No commits yet

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

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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ git commit -m "File about.html added"
[master (root-commit) 7f904a5] File about.html added
 1 file changed, 9 insertions(+)
 create mode 100644 about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-2 (master)
$ git log
commit 7f904a5feabe793adfe01216b73b212f65f27988 (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 19:02:23 2021 -0500

  File about.html added

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/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)
```

Exercise 3:

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.

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-3
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-3/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-3

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ touch index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git commit -m "Adding index.html"
[master (root-commit) 21fd061] Adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git log
commit 21fd061a3f2b7f8bb10e0d2ce32c6478576bcf2c (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 19:10:13 2021 -0500

  Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ touch about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ vi about.html
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git add about.html
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git log
commit cf50836e4aeb6bf8c2f48ec233d00edb71338aa5 (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 19:10:13 2021 -0500

  Adding index.html and about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git commit --amend -m "Adding index.html and about.html"
[master 948d54f] Adding index.html and about.html
Date: Wed Apr 7 19:10:13 2021 -0500
2 files changed, 14 insertions(+)
create mode 100644 about.html
create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git log
commit 948d54f94ee844a0b498ccdf0ab1c5491990cc9e (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 19:10:13 2021 -0500

  Adding index.html and about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-3 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

Exercise 4:

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

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-4
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-4/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ echo '*.*.exe,*.*.o,*.*.jar,*.*.lib' > .gitignore
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git status
fatal: not a git repository (or any of the parent directories): .git
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-4
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (master)
$ ls -a
./ ../ .git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (master)
$ echo '*.*.exe,*.*.o,*.*.jar,*.*.lib' > .gitignore
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (master)
$ git status
On branch master

No commits yet

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

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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (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
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-4 (master)
$ git commit -m "Adding gitignore file"
[master (root-commit) 69bfc67] Adding gitignore file
 1 file changed, 1 insertion(+)
 create mode 100644 .gitignore
```

Exercise -5

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)

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-5
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-5/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-5

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (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)
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash --include-untracked
You do not have the initial commit yet

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash -u
You do not have the initial commit yet

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git commit -m "adding index.html"
[master (root-commit) acea8e5] adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git status
On branch master
nothing to commit, working tree clean

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ vi about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash -u
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory
Saved working directory and index state WIP on master: acea8e5 adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git status
On branch master
nothing to commit, working tree clean

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash list
stash@{0}: WIP on master: acea8e5 adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash apply stash@{0}
Already up to date!
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash list
stash@{0}: WIP on master: acea8e5 adding index.html
stash@{1}: WIP on master: acea8e5 adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash apply stash@{0}
Already up to date!
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html
    newfile.html

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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash --all
Saved working directory and index state WIP on master: acea8e5 adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash apply list
error: list is not a valid reference

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash list
stash@{0}: WIP on master: acea8e5 adding index.html
stash@{1}: WIP on master: acea8e5 adding index.html
stash@{2}: WIP on master: acea8e5 adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash apply stash@{2}
Already up to date!
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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git stash apply
about.html already exists, no checkout
error: could not restore untracked files from stash

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-5 (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html
    newfile.html

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

Exercise -6:

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.

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-6
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-6/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-6
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ vi {index,about,newfile}.html
3 files to edit

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git commit -m "Adding index.html"
[master (root-commit) 8596b2a] Adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ vi about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git add .
warning: LF will be replaced by CRLF in about.html.
The file will have its original line endings in your working directory

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git commit -m "Adding about.html"
[master ebc83e6] Adding about.html
 1 file changed, 7 insertions(+)
 create mode 100644 about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ vi newfile.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git add .
warning: LF will be replaced by CRLF in newfile.html.
The file will have its original line endings in your working directory
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git commit -m "Adding newfile.html"
[master 6b82241] Adding newfile.html
 1 file changed, 7 insertions(+)
 create mode 100644 newfile.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git status
On branch master
nothing to commit, working tree clean

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git log
commit 6b82241becffb251768b78210b485c7f881da09b (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:09:05 2021 -0500

    Adding newfile.html

commit ebc83e6f8d8cfb244d8d3ef7080a005f00adb4d1
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:08:28 2021 -0500

    Adding about.html

commit 8596b2abe4bd67b90d0ee73ed5a744f4f7be4fa9
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:07:43 2021 -0500

    Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git log --oneline
6b82241 (HEAD -> master) Adding newfile.html
ebc83e6 Adding about.html
8596b2a Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git reset --soft HEAD^

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   newfile.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ git log --oneline
ebc83e6 (HEAD -> master) Adding about.html
8596b2a Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-6 (master)
$ |
```

Exercise 7

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.

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-7
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-7/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-7

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ vi {index,newfile,about}.html
3 files to edit

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (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)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git commit -m "adding index.html"
[master (root-commit) 1fc4631] adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ touch {about,newfile}.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git add about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git commit -m "adding about html"
[master 51c9b9d] adding about html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git add newfile.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git commit -m "adding newfile html"
[master b424da8] adding newfile html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 newfile.html
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git log
commit bd078797d4cd67a2a9f966abdbe1fc334757ce77 (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:22:54 2021 -0500

    adding newfile html

commit 51c9b9d11aa71b395713ff1d67cb65ad21ce5ef9
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:19:57 2021 -0500

    adding about.html

commit 1fc463107711297d4f59117319b396a1e03cb066
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:18:25 2021 -0500

    adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git reset --hard HEAD^
HEAD is now at 51c9b9d adding about.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$ git log
commit 51c9b9d11aa71b395713ff1d67cb65ad21ce5ef9 (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:19:57 2021 -0500

    adding about.html

commit 1fc463107711297d4f59117319b396a1e03cb066
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:18:25 2021 -0500

    adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-7 (master)
$
```

Exercise 8

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  **consultadd**
- Merge my-feature branch into master.

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-8
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-8/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-8

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ git commit -m "adding index.html"
[master (root-commit) ebaba25] adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ git checkout -b my-feature
Switched to a new branch 'my-feature'

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (my-feature)
$ vi about-us.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (my-feature)
$ git commit -m "adding about.html"
[my-feature 088b661] adding about.html
 1 file changed, 7 insertions(+)
 create mode 100644 about-us.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (my-feature)
$ git commit --amend -m "adding about.html in my-feature branch"
[my-feature e8ab00c] adding about.html in my-feature branch
 Date: Wed Apr 7 20:29:47 2021 -0500
 1 file changed, 7 insertions(+)
 create mode 100644 about-us.html
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (my-feature)
$ git log
commit e8ab00c16c4b8cc2bbb4630e574666d845649c24 (HEAD -> my-feature)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:29:47 2021 -0500

    adding about.html in my-feature branch

commit ebaba250796ce1d52e56d41954bb552d56154045 (master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:28:41 2021 -0500

    adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (my-feature)
$ git checkout master
Switched to branch 'master'

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ git log
commit ebaba250796ce1d52e56d41954bb552d56154045 (HEAD -> master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:28:41 2021 -0500

    adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ git merge my-feature
Updating ebaba25..e8ab00c
Fast-forward
 about-us.html | 7 ++++++
 1 file changed, 7 insertions(+)
 create mode 100644 about-us.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$ git log
commit e8ab00c16c4b8cc2bbb4630e574666d845649c24 (HEAD -> master, my-feature)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:29:47 2021 -0500

    adding about.html in my-feature branch

commit ebaba250796ce1d52e56d41954bb552d56154045
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:28:41 2021 -0500

    adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-8 (master)
$
```

Exercise 9

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.

Screenshots:

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ git init Exercise-9
Initialized empty Git repository in C:/Users/harsh/girija/PythonTraining/GitAssignment/Exercise-9/.git/
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment
$ cd Exercise-9

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git commit -m "Adding index.html"
[master (root-commit) c6c8e8a] Adding index.html
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git log --oneline
c6c8e8a (HEAD -> master) Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git checkout -b my-feature
Switched to a new branch 'my-feature'

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ vi about-us.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ git status
On branch my-feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about-us.html

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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ git log
commit c6c8e8aea63fd96ef3a08c2ca43abaae7f51b226 (HEAD -> my-feature, master)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:39:34 2021 -0500

  Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ vi index.html
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (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

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ git commit -m "Updated index.html and added about.html"
[my-feature e3db864] Updated index.html and added about.html
 2 files changed, 8 insertions(+), 1 deletion(-)
 create mode 100644 about-us.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (my-feature)
$ git checkout master
Switched to branch 'master'

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git log --oneline
c6c8e8a (HEAD -> master) Adding index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git add .

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git commit -m "Modified index.html"
[master 48466ff] Modified index.html
 1 file changed, 1 insertion(+), 1 deletion(-)

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git merge my-feature
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master|MERGING)
$ vi index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master|MERGING)
$ git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")
    (use "git merge --abort" to abort the merge)

Changes to be committed:
  new file:   about-us.html

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:  index.html
```

```
harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master|MERGING)
$ git add .

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master|MERGING)
$ git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
  new file:  about-us.html
  modified:   index.html

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master|MERGING)
$ git merge --continue
[master 1b7639c] Merge branch 'my-feature'

harsh@DESKTOP-62MKJ60 MINGW64 ~/girija/PythonTraining/GitAssignment/Exercise-9 (master)
$ git log
commit 1b7639c6e35a6635c6725fe7de53e0f7d7b3c643 (HEAD -> master)
Merge: 48466ff e3db864
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:57:45 2021 -0500

  Merge branch 'my-feature'

commit 48466ff2acd1544dd36b18dc2b5f3ecd9376529d
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:55:25 2021 -0500

  Modified index.html

commit e3db8647cbdd7d04e12e1444157bd218e9f633b5 (my-feature)
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:49:57 2021 -0500

  Updated index.html and added about.html

commit c6c8e8aea63fd96ef3a08c2ca43abaae7f51b226
Author: Girija S <girija.soujanya@gmail.com>
Date:   Wed Apr 7 20:39:34 2021 -0500

  Adding index.html
```