VCS Assignment

Exercise1.

Initialize your Repository: git init project Exercise-1

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ ls
Exercise-1/
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ |
```

Create a file with name index.html

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-1 (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)

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-1 (master)
$ !
```

Commit with message 'Initial Message'

Exercise 2. Commit only one file.

Initialize your Repository

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment

$ git init Exercise-2
Initialized empty Git repository in D:/ConsultAdd_Assignments/VCS_Assignment/Exercise-2/.git/
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
```

Create a files with names index.html and about.html

Stage only one file.

```
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)

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-2 (master)
```

Commit with message: 'File x added.'

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-2 (master)
imaster (root-commit) c9f63de] File x added
1 file changed, 5 insertions(+)
create mode 100644 about.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-2 (master)
is git status
In branch master
Untracked files:
(use "git add <file>..." to include in what will be committed)
index.html

Set@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-2 (master)

Set@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-2 (master)
```

Exercise 3:

Initialize your Repository

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ git init Exercise-3
Initialized empty Git repository in D:/ConsultAdd_Assignments/VCS_Assign
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ ls
Exercise-1/ Exercise-2/ Exercise-3/ index.html
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
```

Make Commit.

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ git status
On branch master

No commits yet

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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ git commit -m "Master branch commit"

[master (root-commit) 51696c2] Master branch commit
1 file changed, 1 insertion(+)
    create mode 100644 index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ |
```

Create new branch from master branch with name my-feature.

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ git branch
* master
my-feature

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)
$ git checkout my-feature

Switched to branch 'my-feature'

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)
$ |
```

Add about-us.html file with code and commit changes in my-feature

branch.

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)
$ ls
about-us.html index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)
$ git status
On branch my-feature
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: about-us.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)
$ |
```

Now checkout master branch ...

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)

$ git commit -m "Added about-us.html page"
[my-feature Oebb7ae] Added about-us.html page
1 file changed, 22 insertions(+)
create mode 100644 about-us.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (my-feature)

$ git checkout master
Switched to branch 'master'

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)

$ git branch
* master
my-feature

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-3 (master)

$ git branch
```

Merge my-feature branch into master ...

Exercise-4

Initialize your Repository

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ ls

Exercise-1/ Exercise-2/ Exercise-3/ index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ git init Exercise-4

Initialized empty Git repository in D:/ConsultAdd_Assignments/VCS_Assignment/Exercise-4/.git/

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment
$ |
```

Create index.html file add some code. Make Commit.

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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)

$ git commit -m "Master Branch commit"

[master (root-commit) ceb8282] Master Branch commit

1 file changed, 1 insertion(+)

create mode 100644 index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)

$ |
```

Create new branch from master branch with name my-feature.

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ git branch my-feature

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ git checkout my-feature
Switched to branch 'my-feature'

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (my-feature)
$
```

Add about-us.html file with code Make changes in index.html

Commit changes in my-feature branch.

```
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (my-feature)
$ git status
On branch my-feature
Changes to be committed:
    (use "git restore --staged <file>..." to unstage)
        new file:        about-us.html
        modified:        index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (my-feature)
$ git commit -m "Feature branch commit"
[my-feature 5aec065] Feature branch commit
2 files changed, 3 insertions(+), 1 deletion(-)
        create mode 100644 about-us.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (my-feature)
$ |
```

Do some code changes in index.html Commit changes.

```
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.html

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

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)

$ git add index.html

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)

$ git commit -m "Master Branch Commit"

[master ebclc60] Master Branch Commit

1 file changed, 1 insertion(+)

User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)

$ [waster ebclc60] Master Branch Commit

1 file changed, 1 insertion(+)
```

```
1 file changed, 1 insertion(+)
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (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.
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master|MERGING)
$ |
```

You will get conflicts for index.html file. Resolve conflict by selecting both changes for the same index.html file

```
MINGW64/d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4

GNU nano 8.1

**CACCCC** IEAD

Added changes in Master Branch

Added changes here again!

Master Branch

Added changes from the Feature branch

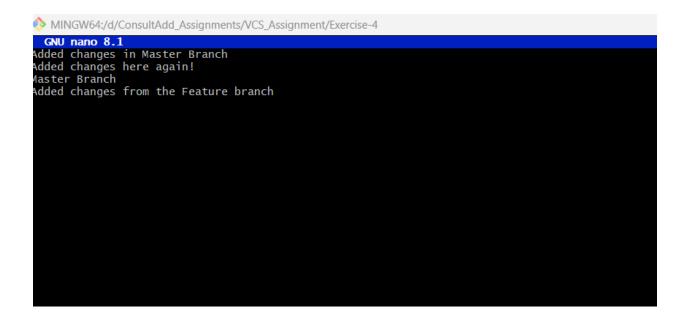
>>>>>> my-feature

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```



You will get conflicts for index.html file. Resolve conflict by selecting both changes for the same index.html file ...

```
MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (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
User@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master|MERGING) $ git commit -m "Resolved merge conflict" [master 6b06543] Resolved merge conflict
 Jser@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ git status
On branch master
nothing to commit, working tree clean
 Jser@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ 1s
about-us.html index.html
 Jser@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ nano about-us.html
 Jser@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
$ cat index.html
Added changes in Master Branch
Added changes here again!
Master Branch
Added changes from the Feature branch
 Jser@Nikhil MINGW64 /d/ConsultAdd_Assignments/VCS_Assignment/Exercise-4 (master)
```