

## Objective:

The objective of this assignment is to provide hands-on experience with cloning, forking, managing branches, handling conflicts, GitHub Pages, and exploring open-source contributions.

## Task 1: Cloning and Forking

**Repository Name:** Tello-Python

**Repository URL:** <https://github.com/damiafuentes/DJITelloPy>

```
Roy Mbera@DESKTOP-BG67C10 MINGW64 /g
$ git clone https://github.com/damiafuentes/DJITelloPy.git
Cloning into 'DJITelloPy'...
remote: Enumerating objects: 666, done.
remote: Counting objects: 100% (211/211), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 666 (delta 192), reused 173 (delta 173), pack-reused 455
Receiving objects: 100% (666/666), 191.46 KiB | 372.00 KiB/s, done.
Resolving deltas: 100% (401/401), done.
```

## 2. Forking a Repository:

Forked repository link: <https://github.com/Roymbera/DJITelloPy.git>

```
Roy Mbera@DESKTOP-BG67C10 MINGW64 /f
$ git clone https://github.com/Roymbera/DJITelloPy.git
Cloning into 'DJITelloPy'...
remote: Enumerating objects: 659, done.
remote: Counting objects: 100% (207/207), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 659 (delta 189), reused 172 (delta 172), pack-reused 452
Receiving objects: 100% (659/659), 189.50 KiB | 358.00 KiB/s, done.
Resolving deltas: 100% (397/397), done.

Roy Mbera@DESKTOP-BG67C10 MINGW64 /f
$ |
```

## Task 2: Managing Branches

### 3. Creating and Switching Branches:

```
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f
$ cd DJITelloPy

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ git checkout -b feature-update
Switched to a new branch 'feature-update'

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ |
```

#### 4. Making Changes and Committing:

```
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ touch new_file.txt

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git add .

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git commit
Aborting commit due to empty commit message.

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git commit -m "my first message in my text file"
[feature-update 79b5821] my first message in my text file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 new_file.txt

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ |
```

#### 5. Merging Changes:

```
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git checkout main
error: pathspec 'main' did not match any file(s) known to git

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ git merge feature-update
Updating 796b018..79b5821
Fast-forward
 new_file.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 new_file.txt

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ |
```

### Task 3: Handling Conflicts

#### 6. Creating Conflicts:

## 7. Resolving Conflicts:

```
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (feature-update)
$ git checkout -b conflict-resolution
Switched to a new branch 'conflict-resolution'

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution)
$ git merge feature-update
Already up to date.

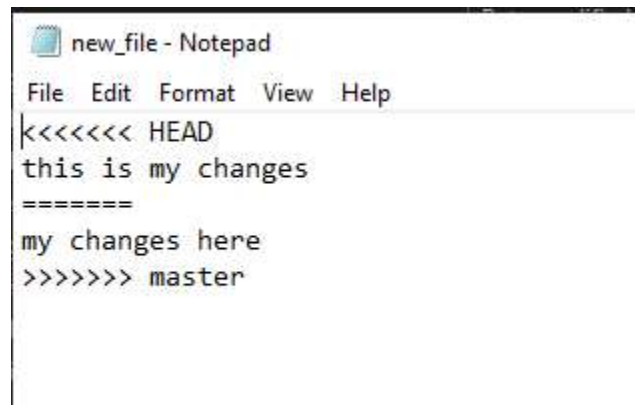
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 914 bytes | 8.00 KiB/s, done.
From https://github.com/RoyMbera/DJITelloPy
* branch      master      -> FETCH_HEAD
   79b5821..5e92594  master  -> origin/master
Updating 79b5821..5e92594
Fast-forward
 new_file.txt | 1 +
 1 file changed, 1 insertion(+)

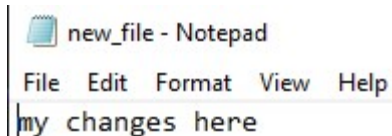
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ git checkout conflict-resolution
Switched to branch 'conflict-resolution'

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution)
$ git merge master
Auto-merging new_file.txt
CONFLICT (content): Merge conflict in new_file.txt
Automatic merge failed; fix conflicts and then commit the result.

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution|MERGING)
$ |
```



```
new_file - Notepad
File Edit Format View Help
<<<<<< HEAD
this is my changes
=====
my changes here
>>>>>> master
```



```
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution|MERGING)
$ git add new_file.txt
warning: in the working copy of 'new_file.txt', LF will be replaced by CRLF the next time Git touches it

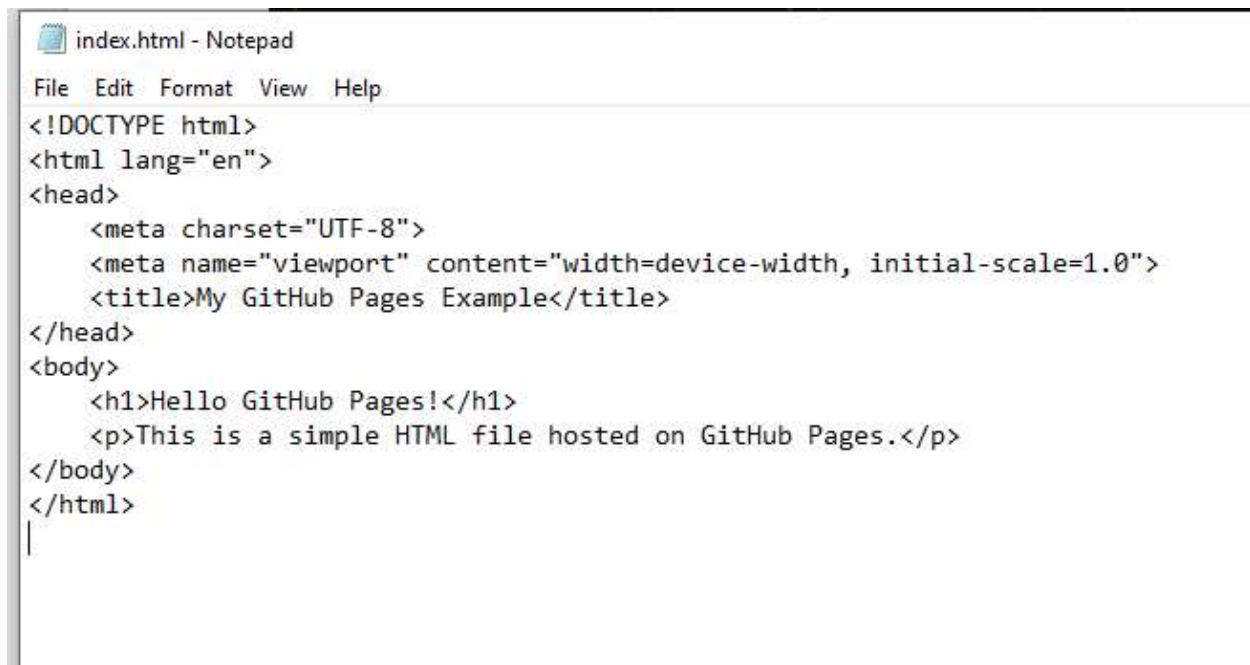
Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution|MERGING)
$ git commit -m "Resolved conflict in new_file.txt between feature-update and master branches"
[conflict-resolution ed179aa] Resolved conflict in new_file.txt between feature-update and master branches

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (conflict-resolution)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ git merge conflict-resolution
Updating 5e92594..ed179aa
Fast-forward
 file.txt      | 1 +
 new_file.txt | 2 +-
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 file.txt

Roy Mbera@DESKTOP-BG67CIO MINGW64 /f/DJITelloPy (master)
$ |
```

## 8. Enabling GitHub Pages:



9. Published Page URL: <https://roymbera.github.io/DJITelloPy/>

Task 5: Open Source Exploration

10. Exploring Open Source Projects: <https://github.com/codecrafters-io/build-your-own-x.git>

**Challenges**

1. Authentication issues and network problems lead to unsuccessful cloning
2. Forgetting to switch to the correct branch or mistakenly creating branches with similar names lead to confusion.