Exercise 2 - Collaborating on a Project Through GitHub

So I will need four volunteers for this exercise. Other can also participate. Just be sure to copy the `ADDITION Operation Template` *into the bottom of the file. And add a new function and feature name.*

Prerequisites:

- Git Installation
- Exercise 1

Option A - Visual Tool

1. Identify your feature: [your feature] (e.g. subtraction).

2. Point your web browser to: `https://github.com/CorbanSwain/Cool-Calculator`

3. In the top right of the project page press 'Fork'. When the forking process is finished, Copy the URL in your browser bar.

4. In the GitHub Desktop application top-bar press `File > Clone Repository ...`

   - Press the 'URL' tab.
   - URL: *the URL you copied* (e.g. https://github.com/YourName/Cool-Calculator)

5. Then Press 'Clone'.

6. When cloning is complete, press `Branch > New Branch`

   - Name: [your feature] (e.g. `subtraction`)

7. Navigate to the cloned repo (e.g. `Documents/GitHub/Cool-Calculator`) And open `operations.py` in any plain text editor.

8. Following the template of the `ADDITION Operation Entry` add:

   i. Comments indicating the desired functionality.
   ii. The proper implementation of your feature in the return block.
   iii. A tuple of your feature's function name and your name after `sym_dict[...] =`
   - **Be sure to only modify your feature!**

- Example implementation for the subtraction feature:

```python
# SUBTRACTION Operation Entry ##########################

# Desired Functionality: (- a b) = a - b

def subtract(a, b):
  return a - b


sym_dict['-'] = ('subtract', 'Mr. Swain')
##################################################################
```

9. After you have implemented your feature, double check spelling and save `operations.py`. You can even try to test it out by editing the `test_str` variable in `calculator.py`.

10. Back in GitHub Desktop, in the 'Summary' Box type `Added [your feature] implementation`. Then press 'Commit to [your feature]'

11. Press 'Publish branch'.

12. Back in your browser window refresh the web page with your forked repository.

13. Click the Green 'Compare & pull request' button. Then press 'Create Pull Request' Congrats your just collaborated on an open source project!

Option B - Command Line

1. Identify your feature: ***[your feature]*** (e.g. subtraction).

2. Point your web browser to: `https://github.com/CorbanSwain/Cool-Calculator`

3. In the top right of the project page press 'Fork'. When the forking process is finished, Copy the URL in your browser bar.

4. In your Terminal application type:

```
git clone "your copied URL"
cd Cool-Calculator
```

5. Then create and checkout your feature branch:

```
git branch "your feature"
git checkout "your feature"
```

6. Navigate to the cloned repo ond open `operations.py` in any plain text editor.

7. In your text editor, following the template of the `ADDITION Operation Entry` add:

    i.   Comments indicating the desired functionality.
    ii. The proper implementation of your feature in the return block.
    iii. A tuple of your feature's function name and your name after `sym_dict[...] =`
    -    **Be sure to only modify your feature!**
    -    **Example implementation for the subtraction feature:**

```
# SUBTRACTION Operation Entry ###########################

# Desired Functionality: (- a b) = a - b

def subtract(a, b):
  return a - b


sym_dict['-'] = ('subtract', 'Mr. Swain')
###########################################################
```

8. After you have implemented your feature, double check spelling and save `operations.py`.
    You can even try to test it out by editing the `test_str` variable in
    `calculator.py`.

9. Back in the Terminal navigate (`cd`) back to the repository (if you left it) and type:

```
git add -A
git commit -m "added [your feature] implementation"
git push -u origin "your feature"
```

10. Back in your browser window refresh the web page with your forked repository.

11. Click the Green 'Compare & pull request' button. Then press 'Create Pull Request'.
    Congrats your just collaborated on an open source project!