HW 2 - GitHub

Due February 11th, 2026 at 11:59pm

Overview

In this homework assignment, you'll practice using GitHub to complete and submit your assignments, and continue practicing using the command line.

Note: If you need help with this homework assignment, please reference **Section 6: Bonus Content** in the [**Class 4**] slides on bCourses. These bonus slides will guide you through a few problems below. Feel free to also look through **The GGG**.

Notice

Before starting, make sure you've followed all the steps from [**Class 3**] including initializing your local and remote repositories, and connecting them.

1 Create a Folder

As with homework 1, for the rest of the semester, you should complete all your homework assignments inside of your `yourname` repository. **However**, instead of uploading your folders to Gradescope you will instead be submitting your GitHub repository. More information on this below.

Additionally, each homework assignment should not only live in your `yourname` repository but also in its own individual folder. So for this assignment, your file structure should look like:

```
python_decal_sp26/yourname/homework2/
```

Create a folder called `homework2/` inside of your `yourname/` repository.

2 Clone a Repository

To recap, so far for Git you have practiced initializing local and remote repositories, connecting said repositories and saving your changes. Now, we will practice another part: **cloning** repositories.

Cloning = creating a local copy of someone else's remote repository. You will not be able to make remote changes to cloned repositories.

Follow the steps below to clone a repository called `course_assignments`. This repository belongs to the user: `pythondecal`. You do NOT own the remote version of this repository.

Steps:

1. Open your terminal (Windows users: use Git Bash).
2. Navigate to your `python_decal_sp26` folder.
3. Visit the Python DeCal **course_assignments** repository.
4. Click on the green **Code** button:

5. Select **HTTPS** and copy the link.
6. In your terminal, run the following command. Replace <`link`> with the URL you just copied.

```
git clone <link>
```

A new folder called `course_assignments` will appear in your `python_decal_sp26` folder. So your directory tree should now look something like:

```
python_decal_sp26/
|--- yourname/
|--- course_assignments/
|--- lecture_notes/
```

Take a screenshot of calling `git clone` and calling `ls` to show your file structure. Name this screenshot: `hw2_clone`. Save the screenshot in your `homework2/` folder.

3 Command Line Practice

Having cloned the new repository `course_assignments`, now you will copy the contents inside to your `yourname` repository. Follow the steps below:

Steps:

1. Open your terminal (Windows users: use Git Bash).
2. Navigate to the newly cloned `course_assignments` repository.
3. Call `ls`. You will see a folder called `homework2/`.
4. Enter the `homework2/` folder. Call `ls`. You should see a file called `homework2.py`.
5. Copy that file to your own repository with a relative path. Call:

   ```
   cp homework2.py ../../yourname/homework2/homework2.py
   ```

   Replace `yourname` with your actual repository name.
6. Navigate to your `homework2/` folder.
7. Open the copied `homework2.py` file. Follow the instructions.
   Hint: Use ***`nano`*** *on the command line.*

4 Running Your Script

Please complete all the parts above before continuing.

4.1 In Your VS Code Terminal:

1. Open VS Code.
2. Open your `homework2.py` script.
3. Run your **completed** script with the arrow button.
4. Take a screenshot of your **code** and the output on the VS Code **terminal**.
5. Name the screenshot: `hw2_vscode`
6. Save the screenshot in your `homework2/` folder.

4.2 On Your Terminal Application:

1. Open the terminal (Mac) or Git Bash (Windows).
2. Navigate to your `homework2/` folder.
3. Run your completed `homework2.py` script by calling:

   ```
   python3 homework2.py
   ```
4. Take a screenshot of your **entire** script output.
5. Name the screenshot: `hw2_commandline`

6. Save the screenshot in your `homework2/` folder.

5 Submitting Your Homework

After completing `homework2.py` and running it in VS Code and on the command line, follow the steps below to save your work and submit to Gradescope.

Steps:

1. Save your work by running the following commands inside your `yourname` repository.

```
git add .
git commit -m "done with hw2"
git push origin main
```

   (Note: You can use any commit message you want.)

2. Take a screenshot showing your terminal of calling all of the above steps with their outputs.
3. Name the screenshot: `hw2_changes`.
4. Place it inside your `homework2/` folder.
   Overall, your `homework2/` repository should look like:

```
homework2/
|--- homework2.py
|--- hw2_changes.png
|--- hw2_clone.png
|--- hw2_commandline.png
|--- hw2_vscode.png
```

5. Go to Gradescope and find the **Homework 2: GitHub** assignment.
6. Select the option to upload a GitHub repository.
7. Submit your `yourname` repository.

Great job!