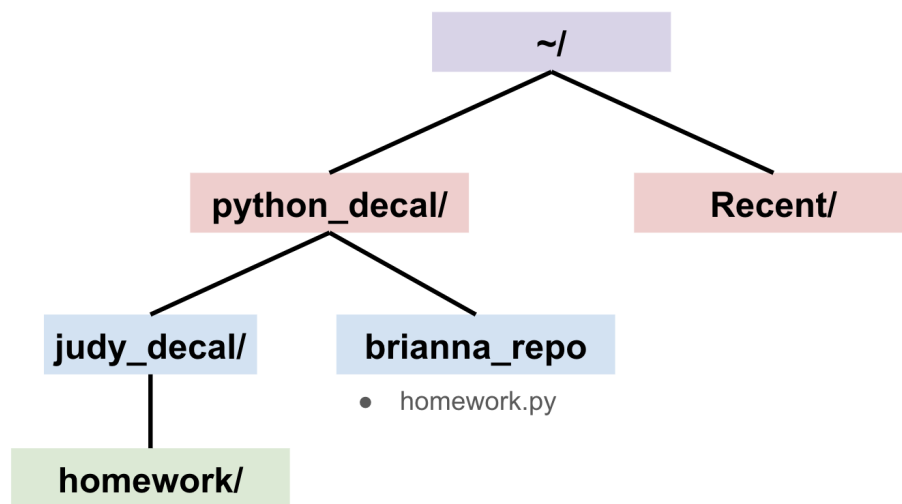


HW 5 - Review

Due March 4th, 2025 at 11:59pm

Please answer the following questions in a `.py` file. Please read this assignment carefully, as you will need to include a screenshot from one of the questions.

1 HW1/HW2 Review: The Terminal + Command Line + Git



In your `.py` file, please answer these questions as comments. Pretend your name is Judy.

1. You have been plopped into this directory system. What command will tell you **what your working directory** is?
2. The command tells you `~/python_decal/judy_decal`. What command with **list all the files** in your current working directory?

3. Brianna just sent out an announcement that there was a typo on `homework.py`. So you need to pull the updates. What commands will let you move to the correct repository and pull the latest changes?
4. How would you move this new `homework.py` to your personal repository `homework` directory?
5. You want to see the contents of the `homework.py` in your terminal from your personal repository. What command(s) will let you do this?
6. You want to edit the contents of the `homework.py` in your terminal from your personal repository. What command will let you do this?
7. You have finished the homework. What commands will allow you to save the changes and push from your local repository to your remote repository?
8. Oh no! Git gave you the following error. What commands should you call to resolve this error and push your homework properly? What does the error mean? (i.e. what did "Judy" do wrong?)

```
! [rejected]          main -> main (fetch first)
error: failed to push some refs to 'https://github.com
/judy/judy_decal.git'
hint: Updates were rejected because the remote contains
work that you do
hint: not have locally. This is usually caused by another
repository pushing
hint: to the same ref. You may want to first integrate
the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push
--help' for details.
```

9. What absolute path will allow you to move to Recents/?

2 HW3 Review: Data Types + Functions + Conditionals + Loops

2.1 Data Types

Write a function that takes any input and returns a string indicating its data type.

```
>>> checkDataType(3.14)
'float'
>>> checkDataType(True)
'bool'
```

2.2 Conditionals

Write a **function** that takes an integer as input and returns 'Even' if the integer is even, and 'Odd' otherwise.

```
>>> evenOrOdd(7)
'Odd'
>>> evenOrOdd(10)
'Even'
```

3 Loops

Write a **function** that takes a list of integers and returns their sum using a loop (do NOT use the built-in `sum()` function).

```
>>> numbers = [1, 2, 3, 4, 5]
>>> sumWithLoop(numbers)
15
```

4 HW4 Review: Lists

4.1 Lists

Write a function that takes a list and returns a new list with each element duplicated.

```
>>> duplicateList(['a', 'b', 'c'])
['a', 'a', 'b', 'b', 'c', 'c']
```

4.2 Debugging

There's an error in the following function that's supposed to return the square of a number. Find and correct it:

```
def square(num)
    return num * num
```

5 HW2 Review: Git

Please take a screenshot of you **adding, committing and pushing** this homework from your local to your remote repository. Include this screenshot in your Gradescope submission!