

# HONR 25315 – Homework SAMPLE

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## Homework Instructions

To receive credit for the assignment, do the following:

1. Create a .py file, and name it: `purduealias_honr25315_homework_number.py`  
(e.g., `gould29_honr25315_homework_1.py`)
2. Create a function for each problem, accepting the input and providing the desired output  
(both of which will be defined in the homework assignment).  
(e.g., `def problem_1()` for Problem #1)
3. Submit the .py file to Brightspace by the due date.

For grading, I will leverage unit tests, to ensure you aren't hard-coding your work. These unit tests are hidden. To test your code, I suggest using a Jupyter Notebook to ensure you're following directions. An example .py file is on our Brightspace and GitHub.

**Problem 1****Python Basics: Addition – 5 points**

Given a non-negative integer, add one to it.

**Input:** Any non-negative integer,  $n$ .

**Desired Output:** An integer,  $n + 1$ .

**Problem 2****Python Basics: Sorting a List – 5 points**

Given a list of items, either strings or integers, sort the list (ascending).

**Input:** A list of items (strings or integers).

**Desired Output:** A sorted list (ascending).

**Problem 3****Python Basics: Sorting a List – 10 points**

Given a float, round it to 3 digits.

**Input:** A float.

**Desired Output:** A float, rounded to 3 digits.