HONR 39900 – Homework SAMPLE

Justin A. Gould
gould29@purdue.edu

April 7, 2021

Homework Instructions
To receive credit for the assignment, do the following:

1. Create a .py file, and name it: purduealias_honr39900_homework_number.py
   (e.g., gould29_honr39900_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 (ascneding).

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.