

DSC 430: Python Programming
Assignment 0101: Grading Logic

NOTE: DePaul students receive a free edition of Visual Studio. See the website. I recommend it for this class. All assignments must be submitted as a single uncompressed .py file.

Consider the grading logic for this class:

- If the assignment is not submitted as a single uncompressed .py file, the grade is 0.
- If the assignment does not include the author's name and date, the grade is 0.
- If the assignment does not include the honor statement, "I have not given or received any unauthorized assistance on this assignment", the grade is 0
- If the assignment does not include a link to an unlisted 3-minute YouTube video presenting the code and answering the assigned questions, the grade is 0.
- If the assignment satisfies all of the above conditions...
 - Up to ten points are awarded based on the correctness of the code; that is, how well it meets the given specifications.
 - Up to ten points are awarded based on the elegance of the code (data structure selection, algorithm efficiency, function implementation, etc.).
 - Up to ten points are awarded based on the code hygiene (white space, docstrings, etc.).
 - Up to ten points are awarded based on the quality of the discussion in the YouTube video.
- Late assignments lose 1% per hour.

Write a python **function** which asks the user a series of questions based on the above logic. For example, "Did the student include their name?" or "Out of ten points, how would you evaluate the correctness of the code?"

Notice that if the student did not include their name, there is no reason to ask any more questions. Likewise, if the assignment was not late, there is no reason to ask how late it was.

The function should return the student's total score as an int.

Record a three minute video in which you run the code. Then, present your code. Specifically, answer the following questions:

- How does the function stop asking questions when the user failed an early condition (like including their name) and return 0?
- How did you deal with the fact that input() returns a string when you needed ints to compute the total score?
- Why should you return the score as an int rather than print it?

Submission: Submit a single .py file containing all the code to the D2L. Do not zip or archive the file. Your code must include comments at the top including your name, date, video link, and the honor statement, "I have not given or received any unauthorized assistance on this assignment." Each function must include a docstring and be commented appropriately.