DS 542 Assignment 8

Before this assignment, please make sure to watch the Week 8 Class Recording and review the notes from this week's "Resources" folder.

- 1. First, open a new .py file in Spyder.
- 2. Inside that .py file, create a class named University
 - a. Create a constructor function (__init__) in the University class that takes the following attributes as parameters:
 - i. university name
 - ii. location
 - iii. undergraduate students
 - iv. graduate students
 - b. Next, create a method within the University class called print_university_size() that prints the sum of the attributes undergraduate_students and graduate_students
 - c. Then, create a method within the University class called is_undergraduate_greater() that prints "There are more undergraduate students than graduate students" if undergraduate_students > graduate_students and "There are more graduate students than undergraduate students" if undergraduate_students <= graduate_students</p>
 - d. Lastly, create an object of the University class named SPU. Define the attributes of SPU to match the actual attributes of Saint Peter's University. Run both the print_university_size() and is_undergraduate_greater() methods on the SPU object.
- 3. (Bonus Question) For 3 extra points on this assignment, create a second class named College that uses inheritance to utilize all the attributes and methods from University. Then, add at least one new method to College and run that method on an object.

Note: Please save your document as your first initial last name Assignment Number (John Smith's submission would be titled – JSmithAssignment8.py).

Upload your assignment to Blackboard