

Programming Assignment 2

Due: Friday, April 24

Write a Python program that calculates the average of the scores that the user enters. The user may enter any number of integers or floating point numbers (between the values of 0 and 100), but must specify how many at the beginning of the program. If the user enters something other than an int when asked how many scores she would like to enter, the program should give the user a warning and ask again. If the average is greater than or equal to 70, tell the user that the class did great.

Call your script `SumAndType.py`

Sample sessions of the program appears below.

Session 1

```
>>> import SumAndType
How many grades will you be entering? 3.4
You can't enter 3.4 grades! How many grades will you be entering? 5
Please enter a grade between 0 and 100: 34
Please enter a grade between 0 and 100: 90
Please enter a grade between 0 and 100: -50
Your number is out of range! Please enter a grade between 0 and 100: 50
Please enter a grade between 0 and 100: 89
Please enter a grade between 0 and 100: 90.5
Your class did great! The average was 70.7
>>>
---
```

Session 2

```
How many grades will you be entering? 3
Please enter a grade between 0 and 100: 45
Please enter a grade between 0 and 100: 20.9
Please enter a grade between 0 and 100: 100
Your class did poorly. The average was 55.300000000000004
```

Format your input and output so that your program reproduces the above session **exactly** (except for the input sentences), even down to the capitalization, punctuation, and spacing.

Every program that you submit in this class should begin with a comment block resembling the model below.

```
# your name
# your userid@ucsc.edu
# programming assignment 2
# a short description of what the program does
```

Test your program thoroughly. Attach the file `SumAndType.py` to Programming Assignment 2 on eCommons.