Purpose: product of numbers

Learning outcomes: 1, 2 and 3

Time: submit before 5pm Friday of Week 5.

Resources: MyLO: lecture notes and tutorial materials

Description:

A statistician wants a program to allow her to enter multiple numbers (integers) and show their product (multiply all inputs) when all numbers have been entered.

Task:

Write a Python program that first tells the user what it does, and then **asks the user** to enter a series of integers (positive or negative). The user should enter zero to signal the end of the series. After all the numbers have been entered, the program should display their product and the count of how many numbers were entered.

Example output:

```
I multiply your numbers together.
Enter your next number, 0 to finish: 2
Enter your next number, 0 to finish: 3
Enter your next number, 0 to finish: 4
Enter your next number, 0 to finish: 0

The product of your numbers is 24
You entered 3 numbers
```

A second example:

```
I multiply your numbers together.
Enter your next number, 0 to finish: 2
Enter your next number, 0 to finish: -2
Enter your next number, 0 to finish: 2
Enter your next number, 0 to finish: 5
Enter your next number, 0 to finish: 0

The product of your numbers is -40
You entered 4 numbers
```

Submission Details

Upload the following to the MyLO submission folder for this task:

1. The source file (i.e. the **.py** file containing your code)
2. A screenshot of the Python shell window that shows the **execution results** of the source code.

Assessment Criteria & Hints

A completed submission **must**:

1. Include comments about the program purpose and the author of the program (your name)
2. Declare variables and assign initial values at the start of the program
3. Use meaningful names for variables, starting with a lower case
4. Continually ask the user to enter numbers (consider what *sort of data* will be entered) until they enter zero (0)
5. Display the product of all numbers entered properly
6. Display how many numbers were entered

7. Submit both the source file and the screenshot