

Assignment #1

Functions

Write definitions for each of the following Python functions, and for each function, include a clear and concise comment to describe its purpose.

Note that each of these functions should *return* a value; they should not themselves *print* anything.

1. `BoxVolume(length, breadth, height)`

The volume of a (cuboid) box of dimensions 'length', 'breadth', and 'height', where each of these is a positive number

`BoxVolume(3, 4, 5) ⇒ 60`

`BoxVolume(4.5, 3.5, 1) ⇒ 15.75`

2. `Perimeter(width, height)`

The length of the perimeter of a rectangle of dimensions 'width' and 'height', where each of these is a positive number

`Perimeter(2, 5) ⇒ 14`

`Perimeter(3.8, 1.5) ⇒ 10.6`

3. `ToSeconds(days, hours, minutes, seconds)`

The total number of seconds in 'days' days, 'hours' hours, 'minutes' minutes, and 'seconds' seconds, where each of these is a non-negative integer

`ToSeconds(0, 0, 3, 15) ⇒ 195`

`ToSeconds(0, 1, 2, 3) ⇒ 3723`

`ToSeconds(1, 0, 0, 0) ⇒ 86400`

`ToSeconds(11, 13, 46, 40) ⇒ 1000000`

`ToSeconds(0, 0, 0, 0) ⇒ 0`

Program Submission:

Store the function definitions in a file named 'a01.py', and turn it in for grading by typing the Konsole command:

```
submit-cs1117 a01.py
```

This file should contain *only* the function definitions; it should *not* contain any test cases.

Due Date: Fri Sep 18, 11:00am