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Introduction to Computer Science and Programming Using Python

Help   josuecarames ▼

Course > Week 1: Python Basics > 1. Introduction to Python (TIME: 1:03:12) > Exercise 6

Exercise 6
Exercise 6

10/10 points (graded)
ESTIMATED TIME TO COMPLETE: 5 minutes
Note that you will have to answer all questions before you can click the Check button.

For each of the following expressions, indicate the value returned, or if the evaluation would lead to an error, write the word 'error' (note this is a word, not a string, no quotes). While you could simply type these expressions into an IDE, we encourage you to answer them directly since this will help reinforce your understanding of basic Python expressions.
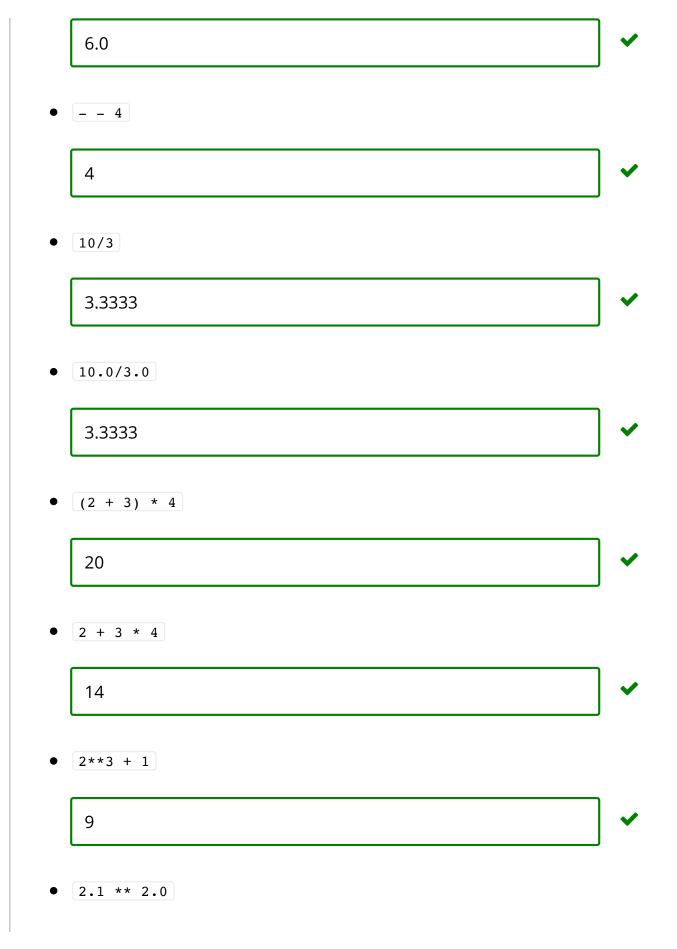
For decimal answers, give the full result, or four decimal places of accuracy (whichever is shortest).

Floating point errors

- `6 + 12 -3`

  15   ✔

- `2 * 3.0`

6.0 ✔

- `– – 4`

4 ✔

- `10/3`

3.3333 ✔

- `10.0/3.0`

3.3333 ✔

- `(2 + 3) * 4`

20 ✔

- `2 + 3 * 4`

14 ✔

- `2**3 + 1`

9 ✔

- `2.1 ** 2.0`

> 4.41 ✔

- `2.2 * 3.0`

> 6.6000 ✔

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Exercise 6

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? **Significant Digits**   3
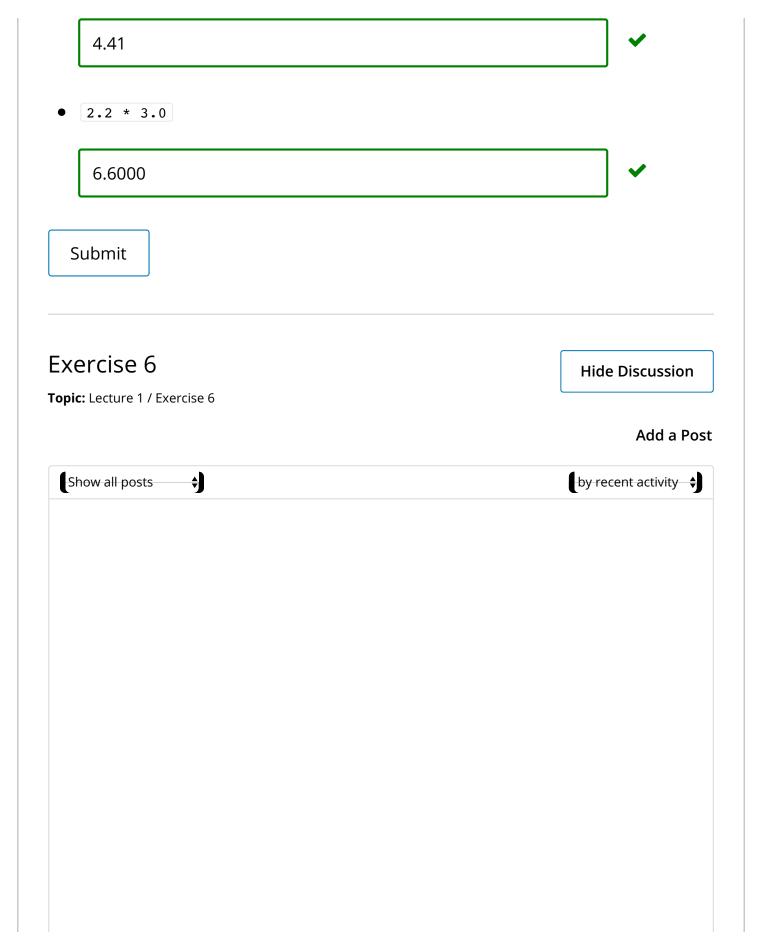
When using floats is there a way to set significant digits? I would have expected 10.0/3.0 to r...

? **10/3**   18

So I gave 3.33 and then 3 and then did it in python and gave 3.3333333333333335 why does...

? **Is - - 4 a valid expression?**   6

From my understanding of previous lectures, an expression must be of the form "[object] [o...

💬 **hint**   6

use the console in spyder, it gives the right answers!

💬 **Spaces before/after operators**   2

Are spaces always needed before or after operators?

? **Why does 2.2 * 3.0 or 2.2 * 3 give 6.6000...0005 instead of 6.6?**   2

Very interesting isn't it...

💬 **Arabic Layout**   6

💬 **** doesn't work as power in anaconda shell**   2

💬 **Two stars give me power.**   1

Pawa **

? **What's the difference between 10/3 and 10.0/3.0?**   8

I assume first one gives an int and second is a float. Isn't that correct?

? **Object Operator Object**   12

Object operator object would be a legal expression, correct? So why does - - 4 not result in a...

? **The 10/3**   10

How many 3s do we need to add after the decimal place. I had put three 3s and now my ans...

? **Console**   4

Whenever I type 2.2 * 3.0 into the IPython console, I get 6.6000000000000005. Why is this? S...

? **I did not get the answer for --4?**   4