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Curso > Week 1... > 1. Intro... > Exercis...

Exercise 8

Exercise 8

12/12 points (graded)

ESTIMATED TIME TO COMPLETE: 6 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 your IDE, we encourage you to answer them directly since this will help reinforce your understanding of basic Python expressions.

Hint: Python boolean types

Remember that in Python words are case-sensitive. The word True is a Python keyword (it is the value of the Boolean type) and is not the same as the word true. Refer to the Python documentation on Boolean values.

Hint: Priority order of Boolean operations

For these problems, it's important to understand the priority of Boolean operations. The order of operations is as follows:

- 1. Parentheses. Before operating on anything else, Python must evaluate all parentheticals starting at the innermost level.
- 2. not statements.
- 3. and statements.
- 4. or statements.



not True and False

evaluates to False, because the not is evaluated first (not True is False), then the and is evaluated, yielding False and False which is False.

However the expression

not (True and False)

evaluates to True, because the expression inside the parentheses must be evaluated first - True and False is False. Next the not can be evaluated, yielding not False which is True.

Overall, you should always use parenthesis when writing expressions to make it clear what order you wish to have Python evaluate your expression. As we've seen here, not (True and False) is different from (not True) and False - but it's easy to see how Python will evaluate it when you use parentheses. A statement like not True and False can bring confusion!

• 3 > 4

False 🗸

4.0 > 3.999

True

4 > 4

False

• 4 > + 4

False

• 2 + 2 == 4

True True or False True False or False **False** not False True 3.0 - 1.0 != 5.0 - 3.0 False 3 > 4 or (2 < 3 and 9 > 10) False 4 > 5 or 3 < 4 and 9 > 8True not(4 > 3 and 100 > 6) False Fnviar

Exercise 8

Tema: Lecture 1 / Exercise 8

Ocultar Discusión

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BEAWARE Capitalize the first letter in each answer! I was able to resubmit the answers. I typed them correctly but forgot to capitalize the first lette	1
and ,or,not #boolean logic "and" print(1 == 1 and 2 == 2) #True "and" True = True print(1 == 1 and 2 == 3)	1
Capital letter or small letter HI everyone, I've found my answers have all gone wrong because I didn't text the first letter of	10
? Compound Booleans using Spyder I had a hard time trying to use the Spyder for Compound Booleans as per the example below	3
(or) vs (and) **4 > 5 or 3 < 4 and 9 > 8** In such situation, which one should be considered first? (or) or (an	6
? Reflection Just a test question.	1
Capitals Note: True and False have to be capitalized! I learned that!	14
▼ True or True and False Python interpreter says the answer is True. But If I calculate from left to right, True or True lea **True or True and False** Python interpreter says the answer is True. But If I calculate from left to right, True or True lea **True or True and False** Python interpreter says the answer is True. But If I calculate from left to right, True or True lea **True or True and False** Python interpreter says the answer is True. But If I calculate from left to right, True or True lea **True or True and False** Python interpreter says the answer is True. But If I calculate from left to right, True or True lea **True or True and True and True answer is True.** **True and True and True answer is True.** **True and True answer is True answer is True.** **True answer is True answer is Tr	3
Mneomonics for Boolean Order I like to use the following mnemonic for remembering the order of Boolean expressions evalu	4
The English Version to Get It Right - Or/And When you see 'or' or 'and' you're comparing 2 things. Just read the statements in your head in	1
For people having trouble with "True or False" type of questions When faced with a question "True or False", we know this returns "True" but why? Well Imagin	7
TRUE vs True I understand that capitalization and punctuation matter in programming but having an input	4
\(\frac{4 > + 4}{\text{ I thought this was going to return an error? What's the correct answer here and why? Thanks!} \)	20

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