

# Basic Python Syntax

LATEST SUBMISSION GRADE

100%

1. In the following piece of code, there is one line starting with #. What does this line mean in Python?

1 / 1 point

```
1 tax_rate = 0.15
2 income = 40000
3 deduction = 10000
4
5 # We keep your highest score
6 tax = (income - deduction) * tax_rate
7 print(tax)
```

- ☒ This is a comment aimed at the human reader. Python ignores such comments.
- ☐ This is a syntax error.
- ☐ This text is printed on the console.
- ☐ This text is used as a file name for the code.

✓ Correct

2. Which of the following are syntactically correct strings?

1 / 1 point

Try each of them in [CodeSkulptor3](#).

☒ "It's a beautiful day."

✓ Correct  
This is a string. A single-quote (apostrophe) can appear inside double-quotes.

☒ 'Hello'

✓ Correct  
This is a string. You can use single-quotes.

☒ "Hello"

✓ Correct  
This is a string. You can use double-quotes.

☐ Hello

☐ "Hello

3. Which of the following statements uses correct Python 3 syntax to print "Hello world." in the console?

1 / 1 point

☐ 1 print(Hello world.)

☐ 1 print Hello world.

☒ 1 print("Hello world.")

☐ 1 print "Hello world."

✓ Correct  
Correctly uses parentheses and quotes.

4. Which of the following arithmetic expressions are syntactically correct?

1 / 1 point

Try each of them in [CodeSkulptor3](#).

☐ 3 \* ((2 - 9) + 4) \* (2 + (1 - 3))

☐ 9 - (2 - (4 \* 3))

☒ (8 + (1 + (2 \* 4) - 3))

✓ Correct  
This example has correct syntax.

☒ (7 - 2) / (3 \*\* 2)

✓ Correct  
This example has correct syntax.

☒ 7 / +4

✓ Correct  
This example has correct feedback.

5. Which of the following can be used as a variable name?

1 / 1 point

Try using each in [CodeSkulptor3](#).

☒ ounces

✓ Correct  
This is a valid variable name.

☒ MYnumber

✓ Correct  
This is a valid variable name. However, convention says that Python variables shouldn't start with a capital letter.

☐ ounce(a)

☐ my-number

6. You would like to make it so that the variable ounces has the value 16, thus representing one pound. What simple Python statement will accomplish this?

1 / 1 point

☐ ounces == 16

☐ 16 = ounces

☐ ounces := 16

☒ ounces = 16

✓ Correct  
Valid syntax for an assignment statement.

7. A gram is equal to 0.035274 ounces. Assume that the variable mass\_in\_ounces has a value representing a given mass in ounces. Which Python statement below uses the variable mass\_in\_ounces to compute an equivalent mass mass\_in\_grams expressed in grams?

1 / 1 point

☐ 1 mass\_in\_grams = mass\_in\_ounces \* 0.035274

☐ 1 mass\_in\_ounces = 0.035274 \* mass\_in\_grams

☒ 1 mass\_in\_grams = mass\_in\_ounces / 0.035274

☐ 1 mass\_in\_grams = 0.035274 / mass\_in\_ounces

✓ Correct  
Correct.