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**MIS3640**

**Exercise 1**

Whenever you are experimenting with a new feature, you should try to make mistakes. For example, in the “Hello, world!” program, what happens if you leave out one of the quotation marks? What if you leave out both? What if you spell print wrong?

1. In a print statement, what happens if you leave out one of the parentheses, or both?

One parenthesis: You get a squiggly red line in visual studios.

>>> print('Hello, world!'

...

... print('Hello, World!')

File "<stdin>", line 3

print('Hello, World!'

^

SyntaxError: invalid syntax

**Python tells you it is missing the parenthesis.**

Two parenthesis: Print is underlined in red in visual studios.

>>> print'Hello, World!'

File "<stdin>", line 1

print'Hello, World!'

^

SyntaxError: invalid syntax

**Python tells you are missing something, in this case parenthesis.**

1. If you are trying to print a string, what happens if you leave out one of the quotation marks, or both?

>>> print('Hello, World!)

File "<stdin>", line 1

print('Hello, World!)

^

SyntaxError: EOL while scanning string literal

**Python tells you it is missing another parenthesis.**

1. You can use a minus sign to make a negative number like -2. What happens if you put a plus sign before a number? What about 2++2?

**It will still read it correctly and add the two numbers.**

1. In math notation, leading zeros are ok, as in 02. What happens if you try this in Python?

File "<stdin>", line 1

02+08

^

SyntaxError: invalid token

**Cannot understand 02 = 2**

1. What happens if you have two values with no operator between them?

File "<stdin>", line 1

2 9

^

SyntaxError: invalid syntax

**Python tells you it is missing a symbol.**

**Exercise 2**

Rewrite calc.py to solve the following questions.

1. How many seconds are there in 42 minutes 42 seconds?

>>> x=60

>>> y=x\*42

>>> s=42

>>> y+s

2562

**2562 seconds**

1. How many miles are there in 10 kilometers? Hint: there are 1.61 kilometers in a mile.

>>> x=1.61

>>> 10 / 1.61

6.211180124223602

**6.211180124223602 miles**

1. If you run a 10 kilometer race in 42 minutes 42 seconds, what is your average pace (time per mile in minutes and seconds)? What is your average speed in miles per hour?

>>> 2562/6.211180124223602

412.482

**412.482 seconds per mile**

>>> 42/60=.7

>>>42.7/6.211180124223602

6.874700000000002

**6.874700000000002 minutes per mile**

>>> 42.7/60

0.7116666666666667 hours

>>> 6.211180124223602/0.7116666666666667

8.727653570337614

**8.727653570337614 miles per hours**