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Skill 2.1 Exercise 1

How are functions in Python similar to functions in math? How are they different?

Skill 2.2 Exercise 1

Refer to the code below.

`print("Python is awesome!")`

What is the name of the function? What is the argument?

Refer to the code below.

`compile`

Is this a valid Python function? How do you know?

Skill 2.3 Exercise 1

Python has many built-in functions. The signature for the round function is shown below. A function signature defines how to use a function. For example, according to the signature below, the round function can accept 1 or 2 arguments. The first argument is the number to be rounded. The second number is separated by a comma and specifies the number of digits after the decimal you want to round the number to. The second parameter is optional and if not provided the first argument will be rounded to the nearest whole number. Below are some examples,

`round(number, [ndigits])`

Function call	Value returned
<code>round(5.89898, 1)</code>	5.9
<code>round(5.89898)</code>	6
<code>round(7)</code>	7
<code>round(10, 2)</code>	10

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Based on the signature, indicate whether each invocation of *round* is legal or illegal, along with the value returned.

Call	Legal/Illegal	Value returned
round(5.1)		
round(5.109, 2)		
round(5.1, 2, 3)		
round()		
round(5.1, .1)		

Skill 2.4 Exercise 1

For each of the following print invocations, indicate whether the statement is legal or illegal. If it is legal, indicate the output.

Code	Legal/Illegal	Output
print("I")		
print("Love") print("To code")		
print("I") print print("Love") print("To Code")		
print("I") print() print("Love") print("To Code")		

Skill 2.5 Exercise 1

Indicate the output for the following statements

```
print("The itsy bitsy spider\nclimbed up the waterspout.")  
print()  
print("Down came the rain\nand washed the spider out.")
```

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Skill 2.6 Exercise 1

Indicate the output for the following print statements.

```
print("My name is", "Python.")  
print("Monty Python.")
```

Skill 2.7 Exercise 1

Indicate the output for the following print statements,

```
print("My", "name", "is", sep="_", end="*")  
print("Monty", "Python.", sep="*", end="*\n")
```