**Now that you know what’s going on with this piece of code, try making Python output a different string. Write a Python script that outputs "I'm programming in Python!" to the screen. Remember that you need to use the print() function and use quotation marks to delimiter the string.**



print("I'm programming in Python")

RunReset

Here is your output:

I'm programming in Python

Nice job! You just programmed a script in Python that says

that you are programming in Python, which is pretty meta.

It also means you just wrote your first Python script and

got your computer to do what you want. Feels pretty great,

right?

**Give it a try yourself! In the following script, change the values of color and thing to have the computer output a different statement than the initial one.**



color = "Green"

thing = "Hope"

print(color + " is the color of " + thing)

RunReset

Here is your output:

Green is the color of Hope

This is not quite right. Try using different values for

color and thing by replacing the words "Green" and "Hope" in

the starter code.

**Now it’s your turn to try! Give this a go yourself.**

**Use Python to calculate (((1+2)\*3)/4)^5(((1+2)∗3)/4)5**

**Tip**: remember that you can use a\*\*b to calculate a to the power of b.



print((((1+2)\*3)/4)\*\*5)

RunReset

Here is your output:

57.6650390625

Awesome! You are making Python do all the math for you!

First Programming Concepts Cheat Sheet

Functions and Keywords

Functions and keywords are the building blocks of a language’s syntax.

Functions are pieces of code that perform a unit of work. In the examples we've seen so far, we've only encountered the print() function, which prints a message to the screen. We'll learn about a lot of other functions in later lessons but, if you're too curious to wait until then, you can discover all the functions available [here](https://docs.python.org/3/library/functions.html).

Keywords are reserved words that are used to construct instructions. We briefly encountered for and in in our first Python example, and we'll use a bunch of other keywords as we go through the course. For reference, these are all the reserved keywords:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| False | class | finally | is | return |
| None | continue | for | lambda | try |
| True | def | from | nonlocal | while |
| and | del | global | not | with |
| as | elif | if | or | yield |
| assert | else | import | pass |  |
| break | except | in | raise |  |

You don't need to learn this list; we'll dive into each keyword as we encounter them. In the meantime, you can see examples of keyword usage [here](https://www.programiz.com/python-programming/keyword-list).

Arithmetic operators

Python can operate with numbers using the usual mathematical operators, and some special operators, too. These are all of them (we'll explore the last two in later videos).

* **a + b**= Adds a and b
* **a - b** = Subtracts b from a
* **a \* b** = Multiplies a and b
* **a / b** = Divides a by b
* **a \*\* b** = Elevates a to the power of b. For non integer values of b, this becomes a root (i.e. a\*\*(1/2) is the square root of a)
* **a // b** = The integer part of the integer division of a by b
* **a % b** = The remainder part of the integer division of a by b

## Module Review

**Submit your assignment**

#### **Practice Quiz: Hello World**

Practice Quiz • 25 min

**Congratulations! You passed!**

**TO PASS**80% or higher

Keep Learning

**GRADE**

100%

## Practice Quiz: Hello World

**TOTAL POINTS 5**

1.Question 1

What are functions in Python?



Functions let us to use Python as a calculator.



Functions are pieces of code that perform a unit of work.



Functions are only used to print messages to the screen.



Functions are how we tell if our program is functioning or not.

**Correct**

Right on! Python functions encapsulate a certain action, like outputting a message to the screen in the case of print().

**1 / 1 point**

2.Question 2

What are keywords in Python?



Keywords are reserved words that are used to construct instructions.



Keywords are used to calculate mathematical operations.



Keywords are used to print messages like "Hello World!" to the screen.



Keywords are the words that we need to memorize to program in Python.

**Correct**

You got it! Using the reserved words provided by the language we can construct complex instructions that will make our scripts.

**1 / 1 point**

3.Question 3

What does the print function do in Python?



The print function generates PDFs and sends it to the nearest printer.



The print function stores values provided by the user.



The print function outputs messages to the screen



The print function calculates mathematical operations.

**Correct**

You nailed it! Using the print() we can generate output for the user of our programs.

**1 / 1 point**

4.Question 4

Output a message that says "Programming in Python is fun!" to the screen.



print("Programming in Python is fun!")

RunReset

**Correct**

Great work! We're just starting but programming in Python

can indeed be a lot of fun.

**1 / 1 point**

5.Question 5

Replace the \_\_\_ placeholder and calculate the Golden ratio: \frac{1+\sqrt{5}}{2}21+5​​.

Tip: to calculate the square root of a number x*x*, you can use x\*\*(1/2).



ratio =(1+(5\*\*(1/2)))/2

print(ratio)

RunReset

**Correct**

Awesome job! See how we can use Python to calculate complex

values for us.

**1 / 1 point**