

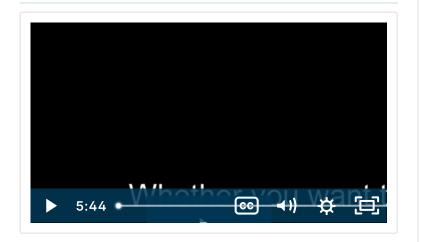
↑ Course Introduction / Python

Python

1.3.1

The Power of Code





1.3.2

Python Programming



Python is an easy to learn programming language that you will use throughout this course. Why should you learn Python? You will need to become familiar with basic Python to complete many of the labs in this course. In addition to this, the Python Essentials course (see the link in Student Resources) names a few factors that make Python a great tool for learning basic coding:

- It is easy to learn the time needed to learn Python is shorter than for many other languages; this means that it's possible to start the actual programming faster.
- It is easy to use for writing new software it's often possible to write code faster when using Python.

Development

DevNet Associate -Python

- It is easy to obtain, install and deploy Python is free, open and multiplatform; not all languages can boast that.
- · If you're not familiar with any other languages, Python

= CISCO DevNet Associate V1.0



1.3.3

Lab - Python Programming Review



This Python Programming Review lab is designed to establish your level of Python expertise before you continue with the DevNet Associate course.

In this lab, you will complete the following objectives:

- · Part 1: Launch the DEVASC VM
- · Part 2: Start Python and VS Code
- Part 3: Review Data Types and Variables
- · Part 4: Review Lists and Dictionaries
- · Part 5: Review the Input Function
- Part 6: Review If, For, and While Functions
- · Part 7: Review Methods for File Access

Python Programmi...

1.3.4

Quiz - Python Review





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 A student is learning Python using the interactive interpreter mode. The student issues the commands:

What is the result?

✓ Topic 1.3.0 - In Python, two lists can be concatenated by using the + (plus sign) operator. The second list appends to the first list and makes a new list. The Python for function is used to loop through the elements in a list and perform an operation on an element. The if statement can be used within the for function to determine the proper action based on the matching condition of each element.

```
['SW1', 'SW2', 'SW3', 'SW4']
['SW4', 'SW3', 'SW2', 'SW1']
['SW4', 'SW1', 'SW2', 'SW3']
['SW4']
['SW1', 'SW2', 'SW3']
```



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2. A student is learning Python in the interactive interpreter mode. The student issues the commands:

```
>>> devicenames=[\"RT1\", \"RT2\",
\"SW1\", \"SW2\"]
>>> devicenames[-1]
```

What is the result?

✓ Topic 1.3.0 - In Python, an item in a list can be referenced and manipulated using its index. The first item in a list is indexed as zero, the second is indexed as one, and so on. The last item can also be referenced with an index of [-1].

- RT1
 ['RT2', 'SW1', 'SW2']
 an error message
 SW2
 SW1
- 3. A developer needs to check the version of the running Python package. Which command should the developer use?

✓ Topic 1.3.0 - The command python3 starts Python, but adding the -V option displays the specific version being used.

- python3 --v
- python3 -V
- python3 -i
- python3 -q

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4. A student is learning Python in the interactive interpreter mode. The student issues the command:

>>> type(True)

What is the data type reported by Python?

 ⊘ Topic 1.3.0 - A type of True or False is a predefined value of the Boolean data type.

integer

Boolean

string

() float

5. Which Python programming function is used to display output?

⊘ Topic 1.3.0 - Print is used to display output in a Python programing language interpreter.

print

() while

) for

) if

Check

Show Me

Reset

1.3.5

How did you do on the Python Programming Review Lab?





How did you do on your Python Programming Review Lab? If you had trouble with this lab, we recommend you spend some time taking the Python Essentials course listed in the Student Resources page. You'll find a link to the course in the More Courses table near the bottom of that page. It's free, online, and self-paced.

