

cisco DevNet Associate



1 / 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 Pvthon.
- 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 is great to begin with, because it will give you a solid foundation and allow you to learn other programming languages (e.g., C++, Java, or C) much easier and much faster. Learning Python is fun and trendy!

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 Programming Review

1.3.4

Quiz - Python Review



1. 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.

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

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].

an error message
SW1
RT1
SW2
['RT2', 'SW1', 'SW2'

3. A developer needs to check the version of the running Python package. Which command should

	c 1.3.0 - The commar the specific version b		Python, but adding the ·	-V option		
pythor	13v					
pythor	n3 -V					
pythor	13 -i					
python3 -q						
I. A student i command:		interactive interprete	mode. The student issues	the		
>>> typ	pe(True)					
What is the	e data type reported by F	ython?				
	c 1.3.0 - A type of Tru	ue or False is a pre	defined value of the Bo	olean data		
string						
float						
Boolea	n					
integer	•					
5. Which Pyth	non programming functio	n is used to display o	output?			
		to display output	n a Python programing	language		
while						
print						
if						
for						
	Check		Show Me			

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.



Course Introduction Summary

