

# DevNet Associate 1.3.4 Quiz – Python Review (Answers)

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## DevNet Associate 1.3.4 Module 1 Quiz – Python Review (Answers)

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

```
>>> routers=[]
>>> switches=[]
>>> devices=["RT1\\", "RT2\\", "RT3\\", "SW1\\", "SW2\\", "SW3\\"]
>>> devices=devices + ["RT4\\", "SW4\\"]
>>> for i in devices:
if "R\\" in i:
routers.append(i)
else: switches.append(i)
>>> switches
```

**What is the result?**

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

**Explanation:** 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.

**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?**

- ['RT2', 'SW1', 'SW2']
- SW1
- RT1
- SW2

- an error message

**Explanation:** 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].

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

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

**Explanation:** The command **python3** starts Python, but adding the **-V** option displays the specific version being used.

**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?**

- **Boolean**
- integer
- string
- float

**Explanation:** A type of True or False is a predefined value of the Boolean data type.

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

- if
- for
- **print**
- while

**Explanation:** Print is used to display output in a Python programming language interpreter.