Feedback — Week 5 Quiz

Help

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You submitted this quiz on **Sat 1 Nov 2014 1:42 PM WET**. You got a score of **10.00** out of **10.00**.

Question 1

What is wrong with this Python loop:

```
n = 5
while n > 0 :
    print n
print 'All done'
```

Your Answer		Score	Explanation
● This loop will run forever	✓	1.00	
○ There should be no colon on the **while** statement			
○ The **print 'All done'** statement should be indented four spaces			
○ **while** is not a Python reserved word			
Total		1.00 / 1.00	

Question 2

What does the **break** statement do?

Your Answer	Score	Explanation
○ Exits the program		
○ Resets the iteration variable to its initial value		
● Exits the currently executing loop	✓ 1.00	
○ Jumps to the "top" of the loop and starts the next iteration		
Total	1.00 / 1.00	

Question 3

What does the **continue** statement do?

Your Answer	Score	Explanation
○ Resets the iteration variable to its initial value		
○ Exits the currently executing loop		
● Jumps to the "top" of the loop and starts the next iteration	✓ 1.00	
○ Exits the program		
Total	1.00 / 1.00	

Question 4

What does the following Python program print out?

```
tot = 0
for i in [5, 4, 3, 2, 1] :
    tot = tot + 1
print tot
```

Your Answer	Score	Explanation

○ 0			
○ 10			
● 5	✓	1.00	
○ 15			
Total		1.00 / 1.00	

Question 5

What is the *iteration* variable in the following Python code:

```
friends = ['Joseph', 'Glenn', 'Sally']
for friend in friends :
    print 'Happy New Year:',  friend
print 'Done!'
```

Your Answer		**Score**	**Explanation**
● friend	✓	1.00	
○ friends			
○ Glenn			
○ Joseph			
Total		1.00 / 1.00	

Question 6

What is a good description of the following bit of Python code?

```
zork = 0
for thing in [9, 41, 12, 3, 74, 15] :
    zork = zork + thing
print 'After', zork
```

Your Answer		Score	Explanation
● Sum all the elements of a list	✓	1.00	
○ Count all of the elements in a list			
○ Find the smallest item in a list			
○ Find the largest item in a list			
Total		1.00 / 1.00	

Question 7

What will the following code print out?

```
smallest_so_far = -1
for the_num in [9, 41, 12, 3, 74, 15] :
   if the_num < smallest_so_far :
      smallest_so_far = the_num
print smallest_so_far
```

Hint: This is a trick question and most would say this code has a bug - so read carefully

Your Answer		Score	Explanation
● -1	✓	1.00	
○ 3			
○ 74			
○ 42			
Total		1.00 / 1.00	

Question 8

What is a good statement to describe the **is** operator as used in the following if statement:

```
if smallest is None :
    smallest = value
```

Your Answer		Score	Explanation
○ Looks up 'None' in the **smallest** variable if it is a string			
○ Is true if the **smallest** variable is not defined			
● matches both type and value	✓	1.00	
○ The if statement is a syntax error			
Total		1.00 / 1.00	

Question Explanation

The **is** operator is stronger than the equality operator (==) as it insists on matching the two values exactly including type. This simple example shows the difference:

```
>>> 1.0 == 1
True
>>> 1.0 is 1
False
```

While 1.0 is the same *value* after the integer 1 is converted to floating point, the **is** operator does no conversion and so the two values do not match. The **is** operator is best used on small constant values like small integers, True, False, and None. The **is** operator should not be used with large numeric values or strings - these values should be compared with the == operator.

Question 9

Which reserved word indicates the start of an "indefinite" loop in Python?

Your Answer		Score	Explanation
○ break			
● while	✓	1.00	
○ indef			

○ def		
○ for		
Total	1.00 / 1.00	

Question 10

How many times will the body of the following loop be executed?

```
n = 0
while n > 0 :
    print 'Lather'
    print 'Rinse'
print 'Dry off!'
```

Your Answer	Score	Explanation
○ This in an infinite loop		
○ 5		
● 0 ✓	1.00	
○ 1		
Total	1.00 / 1.00	