


You submitted this quiz on **Mon 6 Jul 2015 10:37 AM CEST**. 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
<input checked="" type="radio"/> This loop will run forever	 1.00	
<input type="radio"/> There should be no colon on the <b>while</b> statement		
<input type="radio"/> The <b>print 'All done'</b> statement should be indented four spaces		
<input type="radio"/> <b>while</b> is not a Python reserved word		
Total	1.00 / 1.00	

## Question 2

What does the **break** statement do?

Your Answer	Score	Explanation
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☐ Exits the program

☒ Exits the currently executing loop

✓ 1.00

☐ Resets the iteration variable to its initial value

☐ 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

☐ Exits the program

☒ Jumps to the "top" of the loop and starts the next iteration

✓ 1.00

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

☐ 15

☐ 0

☒ 5 ✓ 1.00

☐ 10

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

☐ Sally

☐ 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
<input checked="" type="radio"/> Sum all the elements of a list	 1.00	
<input type="radio"/> Compute the average of the elements in a list		
<input type="radio"/> Find the smallest item in a list		
<input type="radio"/> Count all of the elements 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
<input checked="" type="radio"/> -1	 1.00	
<input type="radio"/> 3		
<input type="radio"/> 74		
<input type="radio"/> 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
<input type="radio"/> Is true if the <b>smallest</b> variable has a value of -1		
<input type="radio"/> The if statement is a syntax error		
<input checked="" type="radio"/> matches both type and value	✓ 1.00	
<input type="radio"/> Looks up 'None' in the <b>smallest</b> variable if it is a string		
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
<input type="radio"/> for		

☐ def

☐ break

☒ while ✓ 1.00

☐ indef

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**

☐ 5

☒ 0 ✓ 1.00

☐ 1

☐ This is an infinite loop

Total 1.00 / 1.00