Chapter 5

Question 1

What is wrong with this Python loop:

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

- This loop will run forever
- O The **print('All done')** statement should be indented four spaces
- O There should be no colon on the while statement
- O while is not a Python reserved word

Question 2

What does the **break** statement do?

- O Resets the iteration variable to its initial value
- O Exits the program
- O Jumps to the "top" of the loop and starts the next iteration
- Exits the currently executing loop

Question 3

What does the **continue** statement do?

- O Resets the iteration variable to its initial value
- O Exits the program
- Jumps to the "top" of the loop and starts the next iteration
- Exits the currently executing loop

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)
```

- 5
- O 10
- 0 0
- O 15

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!')
```

- friend
- Glenn
- Sally
- O friends

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)
```

- Sum all the elements of a list
- O Find the smallest item in a list
- O Count all of the elements in a list
- O Find the largest item in a list

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)</pre>
```

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

- -1
- O 74

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- O 42
- 0 3

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
```

- O The if statement is a syntax error
- O Is true if the **smallest** variable has a value of -1
- matches both type and value
- O Looks up 'None' in the **smallest** variable if it is a string

Question 9

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

- O def
- break
- while
- O indef
- O for

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!')
```

- O 5
- 0
- O This is an infinite loop
- 0 1