1. What is wrong with this Python loop:

```
1    n = 5
2  ∨ while n > 0 :
3    |    print(n)
4    print('All done')
```

● This loop will run forever

○ The **print('All done')** statement should be indented four spaces

○ There should be no colon on the **while** statement

○ **while** is not a Python reserved word

2. What does the **break** statement do?

○ Exits the program

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

○ Resets the iteration variable to its initial value

● Exits the currently executing loop

**3.** What does the **continue** statement do?

○ Exits the program

○ Exits the currently executing loop

○ Resets the iteration variable to its initial value

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

**4.** What does the following Python program print out?

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

○ 10

○ 0

○ 15

◉ 5

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

```
1    friends = ['Joseph', 'Glenn', 'Sally']
2    for friend in friends :
3        print('Happy New Year:',  friend)
4    print('Done!')
```

- ● friend
- ○ Sally
- ○ Glenn
- ○ Joseph

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

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

- ○ Compute the average of the elements in a list
- ○ Count all of the elements in a list
- ● Sum all the elements of a list
- ○ Find the smallest item in a list

7. What will the following code print out?

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

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

- ● -1
- ○ 74
- ○ 42
- ○ 3

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

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

○ The if statement is a syntax error

● matches both type and value

○ Looks up 'None' in the **smallest** variable if it is a string

○ Is true if the **smallest** variable has a value of -1

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

○ indef

● while

○ for

○ def

○ break

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

```
1    n = 0
2    while n > 0 :
3        print('Lather')
4        print('Rinse')
5    print('Dry off!')
```

○ 1

○ 5

● 0

○ This is an infinite loop