

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

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

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

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)
```

- ☐ 0
- ☒ 5
- ☐ 10
- ☐ 15

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
- ☐ Glenn
- ☐ Sally
- ☐ friends

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)
```

- ☐ Find the smallest item in a list
- ☐ Find the largest item in a list
- ☐ Count all of the elements in a list
- ☒ Sum all the elements of 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
```

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

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

☐ The if statement is a syntax error

☒ matches both type and value

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

- ☐ for
- ☐ indef
- ☐ def
- ☐ break
- ☒ while

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!')
```

- ☐ This is an infinite loop
- ☐ 5
- ☐ 1
- ☒ 0