1.What are the two values of the Boolean data type? How do you write them?

**True, False. You write them with the first capital letter.**

2. What are the three different types of Boolean operators?

**and, or, not. Bitwise: &, | , ~**

3. Make a list of each Boolean operator's truth tables (i.e. every possible combination of Boolean values for the operator and what it evaluate ).

**and:**

**True, True -> True**

**True, False - > False**

**False, True -> False**

**False, False -> False**

**or:**

**True, True -> True**

**True, False -> True**

**False, True - > True**

**False, False -> False**

**not:**

**True -> False**

**False -> True**

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) **-> False**

not (5 > 4) **-> False**

(5 > 4) or (3 == 5) **-> True**

not ((5 > 4) or (3 == 5)) **-> False**

(True and True) and (True == False) **-> False**

(not False) or (not True) **-> True**

5. What are the six comparison operators?

**==, >, <, =>, =<, !=**

6. How do you tell the difference between the equal to and assignment operators?Describe a condition and when you would use one.

**Assignment operator is indicated with one ‘=’ sign and used to assign values to variables. The comparison (equal) operator is indicated by two ‘==’ signs and used to compare values on equality.**

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

**1st block**

if spam > 5:

**2nd block**

print('bacon')

else:

print('ham')

**3rd block**

print('spam')

print('spam')

8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.

**if spam == 1:**

**print(‘Hello’)**

**if spam == 2:**

**print(‘Howdy’)**

**else:**

**print(‘Greetings!’)**

9.If your programme is stuck in an endless loop, what keys you’ll press?

**Ctrl + C**

10. How can you tell the difference between break and continue?

**Break will exit the loop, continue will skip some iteration within the loop.**

11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?

**They are all the same, will print numbers from 0 to 9**

12. Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a while loop.

**for i in range(1, 11):**

**print(i)**

**i = 1**

**while i < 11:**

**print(i)**

**i = i + 1**

13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?

**spam.bacon()**