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

True and False are the values. We write them as print(bool(a))

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

Boolean operators are AND, OR and NOT.

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).

print(x>15 and y>11) evaluates if both conditions are true.

print(x>5 or y>15) evaluates if either of the condition is true.

not (3>5) provides the result opposite of the true value.

I’m not sure if something else was also required here.

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) True

not (5 > 4) True

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

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

(True and True) and (True == False) True

(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 operators will be used to hold a certain value to a variable and == will be used to compare if the 2 variables hold same value or not.

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

The 3 blocks of code is highlighted in 3 different colors with if statement.

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.

spam= int(input("Enter numbers from 1 - 3"))

if (spam==1):

print("Hello")

elif(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 help to break and come out of the loop. Continue will help to skip the rest of the code inside the loop in current iteration only.

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

Range(10) and range(0,10) will mean the same, however range(0,10,1) will mean to keep the same loop with skip with a step size of 1.

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+=1

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

This function can be called with spam. bacon()