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

True & False

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

AND, OR & 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 ).

0 AND 0 = 0

0 AND 1 = 0

1 AND 1 = 1

0 OR 0 = 0

0 OR 1 = 1

1 OR 1 = 1

1 NOT = 0

0 NOT = 1

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.

When we use two equal two symbols it means we are giving a statement to compare the values but when single = is used it means we are assigning the right value into the left variable.

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')

Marked in 3 different colours. Also, the print statement should not in parallel line with if else statements to have it work.

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?

Escape or Enter

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

Continue will just skip the next line of code but break will terminate the loop

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

Range(10) means the for loop will continue to run till Range is having value of 10

Range (0,10) means loop will run from range value 0 till 9 as it allows to run the loop for 10 times

Range (0,10,1) means loop will run from 0 to 9 by increasing its value with 1 in every round.

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 loop:

for (int a=1, 11, 1):

print(a)

While loop:

a=1

while (a<11)

Print( a)

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

bacon().spam