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

Ans: Two values of the Boolean data type are “True” or “False”

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

Ans: 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 ).

4. What are the values of the following expressions?

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

Ans: False

not (5 > 4)

Ans: False

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

Ans: True

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

Ans: False

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

(not False) or (not True)

5. What are the six comparison operators?

Ans: == ; > ; <; >=; <=; =!

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

Ans: checking Equal to as **if spam==0** - Here we are checking spam variable value equal to 0

Assigning the value to spam variable as **spam = 0**

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')

Ans: Three blocks of code are identified with 3 different colours above

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.

Ans:

spam = 10

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?

Ans: In Python note we have to interrupt the kernel to stop endless loop. We have press Caps+I+I

In other words press Capital Letter I twice to interrupt the kernel

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

Ans: Break statement exits out of the loop; Continue statement skips current iteration skips to next iteration

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

Ans: 1. range(10) – loops with values from 0-9

2. range(0, 10) -- loops with values from 0-9 starting from 0

3. range(0, 10,1) -- loops with values from 0-9 starting from 0 with increment 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.

Ans:

For x in range(1,11,1):

Print(x)

X=1

While X > 10:

Print(‘X’)

X=X+1

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

Ans: bacon function called as spam.bacon()