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

**True** and **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 ).

**True and True is True.**

**True and False is False.**

**False and True is False.**

**False and False is False.**

**True or True is True.**

**True or False is True.**

**False or True is True.**

**False or False is False.**

**not True is False.**

**not False is 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?

<, >, <=, and =>,==, !=

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

== compares two values and equals to Boolean i..e True, False

= is assignment operator

x=10 y =20

x==y is False

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 three blocks are if, if, else**

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())**

**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 :It exit from the loop when condition is met and move to next statement after the loop**

**Continue: It continues to execute next iteration**

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

range(10):It starts from 0 to 9 excluding 10

range(0,10): 0 is starting point and 10 is end point but it only prints till 9 executing end point(10)

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<=10:**

**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()