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

**Two values of Boolean : True, False**

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

**Three different types of boolean operators are :**

**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 ).

**And not**

**A B Result A Result**

**0 0 False 0 1**

**0 1 False 1 0**

**1 0 False**

**1 1 True**

**or**

**A B Result**

**0 0 False**

**0 1 True**

**1 0 True**

**1 1 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.

**equal to operator compares two values and returns True if it is true. while assignment operator is used to assign some values to the reffering (lhs)**

7. Identify the three blocks in this code:

**Blocks are highlightened**

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

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")**

**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 keyboard interrupt**

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

**break - keyword is used when condition is satisfied and we need to come out of the loop.**

**continue - keyword is used when condition is satisfied and we want to skip execution of rest code part in that condition.**

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

**range(10) - program executes from 0 to 9, upper limit is given, lower limit is by default 0.**

**range(0,10) - program executes from 0 to 9, lower and upper limit both is given.**

**range(0,10,1) : program executes from 0 to 9, lower, upper limit is given with skip sequence.**

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.

USING FOR

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

**print(i)**

USING WHILE

**i=1**

**while i<=10 :**

**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?

**spam.bacon()**