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

**0 & 1 are two values of Boolean datatype.. they can be written as True and False respectively.**

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

**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 ).

**And operator Or Operator Not operator**

**0 0 🡪0 0 0 🡪0 0🡪1**

**0 1🡪0 0 1🡪1 1🡪0**

**1 0🡪 0 1 0🡪 1**

**1 1-> 1 1 1-> 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?

**> greater than**

**< lesser than**

**== equals to**

**>= greater than or equals to**

**<= Lesser than or equals to**

**!= Not equal to**

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

Assignment operator is **=** and equal to is **==.**

**x=5**

**if x==5:**

**print (“given value is 5” )**

**else:**

**print (“given value is not 5” )**

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')

**indentation should be given after IF ELSE condition.**

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 ("please enter number"))**

**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 : We can come out of loop if external condition is triggered.**

**Continue: We can jump to the next iteration if we have written continue in if condition.**

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

**All are same**

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

**print (i)**

**While Loop**

**x=1**

**y=11**

**count=1**

**while x<y:**

**print (x)**

**x+=1**

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