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

**Ans : True & False are two Boolean data type**

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 ).

**AND truth table : True & True =True , True & False=False , False & True =False, False & False=False**

**OR truth table : True or True=True ,True or False=True, False or True=True, False or False=False**

**Not truth table : Not true =False , Not False =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?

**1.less than(<) , 2.Greater than(>), 3.equal to (==) ,4.not equal to (!=) ,5.less than or equal to (<=) 6. Greater than or 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.

**= is assignment operator & == is equal to operator**

**Assignment operator is use when to assign the value & equal to operator check whether two values equal or not**

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')

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=1**

**If spam==1:**

**Print(‘Hello’)**

**Elif spam==2:**

**Print(‘howdy’)**

**Else:**

**Print(‘Greeting!’)**

9.If your programme is stuck in an endless loop, what keys you’ll press?

**Ctr C**

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

**If condition will match then Break will break the loop & after condition match continue will continue the loop**

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

**Range (10 ) mean 0 is start & upto 9 because 10 is excluded**

**Range(0,10) same as obove**

**Range(0,10,1) same as above but step size incremented by 1**

2. 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?

**Need help with Q 13 & Q 7**