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

**A: Two values of Boolean data type: 0 and 1**

**It is written as False and True respectively.**

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

**A: 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 ).

**A: 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)

not (5 > 4)

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

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

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

(not False) or (not True)

**A: (5 > 4) and (3 == 5):Ans:False(0)**

**not (5 > 4):Ans: False(0)**

**(5 > 4) or (3 == 5):Ans: True(1)**

**not ((5 > 4) or (3 == 5)):Ans: False(0)**

**(True and True) and (True == False):Ans:False(0)**

**(not False) or (not True):Ans:True(0)**

5. What are the six comparison operators?

**A: ==, !=, <, >, <=, and >=.**

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

**A: == is the equal to operator that compares two values are same or not, Assignment operators: assign values to variables(x=2,y=3 where x assumes value 2 and y as 3 untill modified.**

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')

**A: if spam == 10:**

**if spam > 5:**

**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.

**A: The code:**

**Spam=input(enter spam value)**

**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?

**A:** **Ctrl+C keys**

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

**A:** **Break statement makes the control come out of loop**

**Continue statement takes the control for next iteration**

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

**A: No difference .Range will take value for 0 to 9**

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.

**A: for I in range(1,11):**

**print(i)**

**I=1**

**While i<11:**

**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?

**A: This function can be called with spam. bacon()**