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

**Ans: boolean can have two values: true and false**

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

**Ans: 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 ).

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?

**Ans: Python has six comparison operators: less than ( < ), less than or equal to ( <= ), greater than ( > ), greater than or equal to ( >= ), equal to ( == ), and 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.

**Ans: The “=” is an assignment operator is used to assign the value on the right to the variable on the left. The '==' operator checks whether the two given operands are equal or not. If so, it returns true.**

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 = input(“enter the 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?

**Ans : CTRL + C**

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

**Ans: Break statement leads to an immediate exit of the innermost switch or enclosing loop. On the other hand, the continue statement begins the next iteration of the while, enclosing for, or do loop.**

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

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+=1**

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

**import spam**

**spam.bacon()**