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

Ans :There are two types of Boolens . **1.True 2.False**

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

Ans :There are three types of Boolean operators.

* **The AND operator (&& or "and")**
* **The OR operator (|| or "or")**
* **The NOT operator (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?

**1. <**

**2.>**

**3.=**

**4.<=**

**5.>=**

**5.!=**

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

**=** is used to assign values.**e.g:When we want to assign a integer to a variable.**

**==** is used as a comparison .**e.g When we want to compare two values.**

7. Identify the three blocks in this code:

spam = 0

if spam == 10:  **block 1\**

print('eggs')

if spam > 5: **block 2 \**

print('bacon') /

else:  **block 3**

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 = 0**

**if spam==1:**

**print(“hello”)**

**if spam==2:**

**print(“Howdy”)**

**else:**

**print(“greetings”)**

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

**Cntl +C**

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

**The break statement terminates the loop containing it. Control of the program flows to the statement immediately after the body of the loop.**

**The continue statement is used to skip the rest of the code inside a loop for the current iteration only. Loop does not terminate but continues on with the next iteration.**

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

**1.count from 0-9**

**2.count from 0-9**

**3.count from 0-9 with step size of 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(1,10):**

**print(i)**

**i=0**

**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?

**from spam import bacon()**