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

**Ans:** True and False

Ex: We can write

print(10 > 9) = True

print(10 == 9) = False

print(10 < 9) = False

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

**Ans:**

print(10 > 9) = True

print(10 == 9) = False

print(10 < 9) = False

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).

**Ans:**

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) - False

not (5 > 4) - True

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

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

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

(not False) or (not True) - False

5. What are the six comparison operators?

Ans:

== , > , < , <= , >= , !=

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 a simple assignment operator. It assigns values from right side operands to the left side operand. While on the other hand == checks if the values of two operands are 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')

**Ans:**

ham

spam

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 = 3

if spam == 1:

print("hello")

elif spam == 2:

print("hoddy")

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:

1. Break: Break statement will works at specific conditions to terminate the Loop.
2. Continue: Continue statement will works to skip the loop, as per condition.

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

Ans: In range, the default start value is 0 and default increment value is 1, If you not specified.

For range(10) or range(0,10) or range(0,10,1) the output will be same(0123456789)

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

while x <=10:

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?

Ans:

Import spam

spam.bacon()