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

True and False

# Declaring variables

a **=** 10

b **=** 20

# Comparing variables

print(a **==** b)

o/p

False

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

== This checks whether two variables are equal or not

> This checks whether given variables are less than or equal to each other

< This Checks whether given variables are equal to each other

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?

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

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

== is the equal operator to operator that compares two values and evaluates to a Boolean, while = is the assignment operator that stores a value in a variable.

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')

The three blocks are everything inside the if statement and the lines print('bacon') and print('ham').  
print('eggs')  
if spam > 5:  
print('bacon')  
else:  
print('ham')  
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=int(input())

If spam==1:

Print(“Hello”)

Elif spam==2:

Print(“Howdy”)

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

Ctrl+C

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

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)?

Range(10) will print numbers from 0 to 9

Same with other two statements will yield same result

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.

using while

i = 1

while(i<=10):

print(i)

i += 1

using for

for i in range(1, 11):

print(i)

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

Spam.bacon()