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

ans: -there are 2 types of boolean variables true and false

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

ans : -there are 3 types of boolean variables 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 ).

ans: -true and true = true , true and false = false , false and true = false , true or true = true , true or false = true , false or true = true , false or false = false , not true = false , not false = true

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 : ->,<,!=,==,>=,<=

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 equal is a comparison operators which shows equal values, and assignment operator is a use to assign value to the variable, a == b and a = 10 , in first condition we are using comparison operator and the a value is equals to b and the second condition we have used assignment operator to assign 10 value into a variable

7. Identify the three blocks in this code:

ans : -block is everything inside body of If statement

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 = 2

if spam ==1:

print('hello')

elif spam ==2:

print('howdy')

else:

print('greetings')

in this senerio print statement will be howdy because spam is equal to 2

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:- the break statement will move the execution out and the loop in the condition is true

continue statement will move the execution to the start of the loop

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

ans:-they are gonna do the same thing. the range(10) in this upper bond by default it takes 0 and goes up to 10 , (0,10) tells the loop to start at 0 , and range (0,10,1) tells the loop to up to 10 with the 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)

a = 1

while a <=10:

print(a)

a = a + 1

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

ans:-spam.bacon()