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

Ans: True,False

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

ANS: AND OR 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 ).

True, True = True

True,False = False

False True = False

False False = False

True False

4. What are the values of the following expressions?

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

ANS :FALSE

not (5 > 4)

ANS : FALSE

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

ANS: TRUE

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

ANS:FALSE

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

ANS:FALSE

(not False) or (not True)

ANS: TRUE

5. What are the six comparison operators?

Equal to, not equal,Greater than,Less than Or equal to,less than,less than or 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.

= 🡪 single is assignment operator that is useful when we want to assign the values

== -> is the comparison operator that is Equal to and compare two values

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 : if

if

else

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.

spam1 = int(input())

if spam1 == 1 : print('Hello')

elif spam1 == 2:print('Howdy')

else:print('Greetings')

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

Ctrl+break

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

Break : break the execution of the code

Continue : transfer the control of the execution after the break

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

Range(10) : it always goes with default starting iteration from 0

Range(0,10): it always goes with default starting iteration from 0 since we mentioned explicit

range(0, 10, 1): It starts the iteration as zero till 10 the increment value by 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.

Ans:

For Loop :

For I in range(1,10,1):

Print(I)

While loop :

While (i)

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()