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

* True and False are the two Boolean values.

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

* AND, OR, NOT are three Boolean operators

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 ).

AND TABLES

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

OR TABLE

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

NOT TABLES:

|  |  |
| --- | --- |
| A | OUTPUT |
| 0 | 1 |
| 1 | 0 |

4. What are the values of the following expressions?

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

not (5 > 4): FLASE

(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?

* Equal To Operator in python. (==)
* Not Equal To Operator in python. (!=)
* Greater Than Operator in python. (>)
* Less Than Operator in python. (<)
* Greater Than Equal To Operator in python (>=)
* Less Than Equal To Operator in python*.* (<=)

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

A=2 is assignment operator

A==b is equal to operator

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')

Output:

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 = 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?

(ESC I,I)

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

Break are use to discontinue/stop the next line programme execution.

Continue are use to continue the loop.

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

Range(10) counts form 0 to till 10.

Range(0,10) counts from 0 to till 10.

Range(0,10,1) counts from 0 till 10 and add 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.

a=0

for a in range(0,10,1):

print(a)

a = 1

while a < 11 :

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?

Bacon() is local variable function while spam() is global variable function.

import spam

a = spam.bacon()