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

-> False and True are the values of Boolean data type.

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

-> AND , OR and NOT are the three types of 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 -> OR ->NOT

A B A AND B A OR B not A

1 1 1 1 0

1 0 0 1 0

0 1 0 1 1

0 0 0 0 1

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 operator

-> != Not Equal operator

-> > Greater than

-> < Less than

-> >= Greater than or equal to

-> <= 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.

-> equal to operator has two equal sign and assignment operators has one equal signs

Assignment operator : this is used where you want to assign value to a variable.

Equal operator : this is used where you want to compare two values or variables.

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')

ANSWER:

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’)

if Spam == 2:

print(‘Howdy’)

else :

print(‘Greetings!’)

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 is used to exit the current loop

Continue statement is used to skip a step in the current loop

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

-> range(10) – gives numerical output sequence from 0 to 9

-> range(0, 10) -- gives numerical output sequence from 0 to 9

-> range(0, 10, 1) -- gives numerical output sequence from 0 to 9 ,the third parameter represent increment of numericals in the sequence.

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(1,11) :

Print(i)

i = 1

While i<= 10

Print(i)

i = i + 1

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

Spam.bacon()