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

Ans :- Two Boolean values are ‘ True ’ and ‘ False ’, during writing its first letter should be

Capital letter.

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

Ans :- Boolean operators are

* *AND boolean operator*
* *NOT boolean operator*
* *OR boolean operator*

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 :- truth table for AND truth table for NOR truth table for NOT

A B AB A B AB A A’

0 0 0 0 0 0 0 1

0 1 0 0 1 1 1 0

1 0 0 1 0 1

1 1 1 1 1 1

Here 1 = True , 0 = 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?

Ans :- < less than,

> greater than

== equal to

<= less than equal to

>= greater than equal to

!= not 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.

Ans :- Equal to is the comparator operator whereas Assignment operator is use to do arithematic operation and assigning value to operand (variable).

Ex :-

a = 10

b = 7

a = a + b

Assignment operator expression

a += b

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs') inter block A

if spam > 5: block A

print('bacon') block B

else: block A

print('ham') block C

print('spam') block A

print('spam') exit block A

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.

Ans :-

spam = int (input ( 'write input here:'))

if spam == 1 :

print ('hello')

elif spam == 2 :

print ('howdy')

else :

print ('greetings')

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

Ans :- if we stuck in endless loop then press CTRL + C

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

Ans :-

break: - It terminates the current working loop and passes the control to the next statement.

Continue: - it jumps off to the very next condition in loop. But it will continue the execution of the loop statement.

In simple words break statement leaves a loop, whereas the continue statement jumps to the next iteration.

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

Ans :-

range (10) : - return values from 0(bydefault) to 10 (exclusive) with jump of 1 (bydefault)

range (0, 10) : -- return values from 0 to 10 (exclusive) with jump of 1 (bydefault)

range(0, 10, 1) : -- return values from 0 to 10 (exclusive) with jump 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.

Ans :-

for i in range (1,11):

Print (i)

a = 1

while a <10:

print (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 ()