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

There are 2 values of Boolean data type

True

False

X=True

Y=False

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

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 and True is True.

True and False is False.

False and True is False.

False and False is False.

True or True is True.

True or False is True.

False or True is True.

False or False is False.

not True is False.

not False is 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?

Python has six comparison operators: less than ( < ), less than or equal to ( <= ), greater than ( > ), greater than or equal to ( >= ), equal to ( == ), and 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.

Equal to🡪 =

Assignment Operator 🡪 ==

When we assign some values in a variable then we have to use equal to

A=5

B=10

When we are comparing two variables then we have to use comparison operator ==.

A==B-> returns False

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:

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=0

If Spam==1:

Print(‘’Hello”)

Elif spam==2:

Print(“Howdy”)

Else:

Print(“Greeting!”)

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

Press Ctrl+C when programme is stuck in an endless loop.

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

Break:

In the break statement, the control exits from the loop.

It is used to stop the execution of the loop at a specific condition.

Continue:

In the continue statement, the control remains within the loop.

It is used to skip a particular iteration of the loop.

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

Outut of these three range is same

Range(10),Range(0,10),Range(0,10,1)🡪

0,1,2,3,4,5,6,7,8,9

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(“Hello”)

Equivalent while program:

i = 1

While(i<11):

Print(“Hello”)

i+=1

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()