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

ANSWER.

True and False.

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

ANSWER.

Three types of Boolean operators are ‘and’, ‘ or‘ and ‘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 ).

ANSWER.

OR

1 1 : 1

1 0 : 1

0 1 : 1

0 0 : 0

AND

1 1 : 1

1 0 : 0

0 1 : 0

0 0 : 0

NOT

1 : 0

0 : 1

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1 : True

0 : False

4. What are the values of the following expressions?

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

not (5 > 4)

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

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

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

(not False) or (not True)

ANSWER.

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

not (5 > 4) : True

(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?

ANSWER.

==

>

<

!=

>=

<=

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

ANSWER.

Equal to operator(==) is used to draw a comparison b/w two value.

a == b.

Assignment operator(=) is used to assign the value to a variable.

a = 10.

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.

Block 1

spam = 0

if spam == 10:

print('eggs')

Block 2

if spam > 5:

print('bacon')

Block 3

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.

ANSWER

spam = int(input("Enter the value of spam: "))

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?

ANSWER

Ctrl + C.

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

ANSWER

Break is used to skip the loop permanently while Continue is used to skip that iteration.

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

ANSWER.

There is no difference in output .

range(10) only define the end point.

range(0, 10) define the starting and end point.

Range(0, 10, 1) define the starting, end point and step size.

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.

ANSWER.

FOR LOOP

for i in range(1, 11):

print(i)

WHILE LOOP

i = 1

while i <= 10:

print(i)

i += 1

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

ANSWER.

import spam

spam.bacon()