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

Answer: Two values of Boolean data type are ‘True’ and ‘False’.

We can write them as bellow:

a=True

B=False

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

Answer: Different types of Boolean Operators are 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 ).

Answer:

A B not A not B A == B A =! B A or B A and B

T F F T F T T F

F T T F F T T F

T T F F T F T T

F F T T T F F F

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?

Answer: >, <, >=, <=, == and !=

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

Answer: Assignment operator: Used for assigning value to a variable.

Ex: a=10;

Equal to operator: Used for comparing two values.

Ex: (3==5)

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: output is

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.

Answer:

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?

Answer: ctrl+C

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

Answer: Break: Program will stop executing immediately.

Continue: Program will stop executing and come out of the loop and then continue in the next loop.

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

Answer:

range(10): it will print 10 numbers i.e. from o to 9

range(0,10): here the start index is 0 & end is 10 which will give output from 0 to 9 and will not include 10.

range(0,10,1): Here the start index is 0 and end index is 10 with a step value of 1. Output will be 0,2,4,6,8.

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:

def bacon();