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

True , False and First letter should be written in Capital

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 ).

|  |  |  |
| --- | --- | --- |
| AND | OR | NOT |
| True and True = True  True and False = False  False and True = False  False and False = False | True or True = True  True or False = True  False or True = True  False or False = False | not(True) = False  not(False) = 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?

> >= < <= == !=

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

Equal is comparison operator and is used for comparing two different values, its symbol in python is == .

Assignment is used for assigning a value on the right to a variable on the left side, its symbol in python is =

7. Identify the three blocks in this code:

The answer depends on the indent of the code

spam = 0 spam = 0

if spam == 10: if spam == 10 :

print('eggs') print(‘egg’)

if spam > 5: if spam > 5 :

print('bacon') print(‘bacon’)

else: else:

print('ham') print(‘ham’)

print('spam') print(‘spam’)

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?

In python Crtl + c and in jupyter I can use I,I

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

break will stop the loop in which the statement is in it and control will go to the statement after break statement but continue skip current iteration and force to execute next iteration of the loop

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

There is not any difference between these 3 codes in this example

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)

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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?

Import spam

Spam.bacon()