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

Ans: They are True and False.

We write them without quotation just like below:

True

False

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

Ans: They 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 ).

Ans:

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | AND | OR |
| True | True | True | True |
| True | False | False | True |
| False | True | False | True |
| False | False | False | False |

|  |  |
| --- | --- |
| A | NOT |
| True | False |
| 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?

These 6 comparison operators are:

== compare euality

!= not equal

> Greater than

< Less Than

>= Greater Equal to

<= Less 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 operator ==

Assignment operator =

Equal to operator is a comparison operator. Used to compare the equality of 2 values . Assignment operator is used to assign values inside a variable.

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')

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”)

if spam==2:

print(“Howdy”)

else:

print(“Greetings!”)

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

Ans: Ctrl + c to give a keyboard interrupt

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

Ans: Break actually breaks a loop and continue skip a specific loop cycle and continue with next loop cycle.

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

Ans:range(10),range(0,10) and range(0,10,1) are same. They starts from 0 and ends at 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.

Ans:

**Using for loop**

for i in range(1,11):

print(i)

**Using while loop**

i=1

while i<11:

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?

Ans:

import spam as spam

spam.bacon()