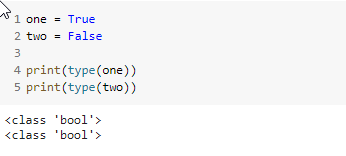
1.What are the two values of the Boolean data type? How do you write them?

**True and False**



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

**And Operator = When all conditions are True, return True, else False**

**Or Operator = When any conditions are True, return True, else False**

**Not Operator = If condition is True, it return false. If condition is False, it return True.**

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 Operator** |  |  |
| **If A** | **If B** | **Result** |
| **TRUE** | **TRUE** | **TRUE** |
| **TRUE** | **FALSE** | **FALSE** |
| **FALSE** | **TRUE** | **FALSE** |
| **FALSE** | **FALSE** | **FALSE** |
|  |  |  |
| **OR Operator** |  |  |
| **If A** | **If B** | **Result** |
| **TRUE** | **TRUE** | **TRUE** |
| **TRUE** | **FALSE** | **TRUE** |
| **FALSE** | **TRUE** | **TRUE** |
| **FALSE** | **FALSE** | **FALSE** |
|  |  |  |
| **NOT Operator** |  |  |
| **If Not TRUE** |  | **FALSE** |
| **If Not FALSE** |  | **TRUE** |

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)

Graphical user interface, text, application

Description automatically generated

5. What are the six comparison operators?

* **Equal to ==**
* **Not equal to !=**
* **Greater than >**
* **Less than <**
* **Greater than or equal >=**
* **Less than or equal <=**

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

**= used for assign value in variable**

**== used for company two values equal or not. If equal, then return TRUE otherwise return 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')



**Frist two if conditions are not True, so print the else statement.**

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.

Graphical user interface, text, application

Description automatically generated

**spam = 2**

**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?

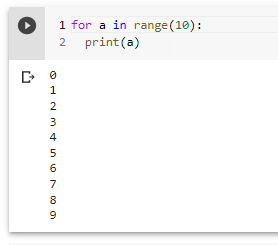
**Ctrl + C key need to press to stop programme.**

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

**break and continue are two keywords in Python that can be used to control the flow of a loop.**

**Break is used for to stop the loop when certain condition is met.  
Continue is used for certain condition where skip the loop and start next loop.**

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

 Graphical user interface, text, application, chat or text message

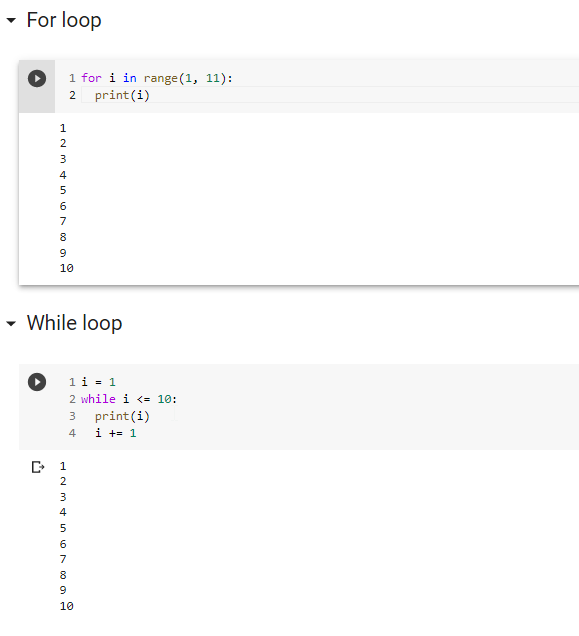
Description automatically generated

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated **Range start from 0, Range end 10-1, Jump number 2**

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.



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()**