**Q1. What are the two values of the boolean data types? how do you write them ? Ans :** True and False are the two values of the boolean data types.

Python is case sensitive so the initial letter of both the value must be in upper case and rest be in lower case.

Also, In Python True and False are equivalent to "any integer value except 0" and "0" respectively.

In [1]:

ineuron\_is\_an\_evolutionary\_firm\_for\_edTech\_and\_Product\_Based\_Services **= True**

All\_Oranges\_are\_Apples **= False**

print(f"iNeuron is an evolutionary firm for edTech and Product Based Services: {ineu print(f"Data Type : {type(ineuron\_is\_an\_evolutionary\_firm\_for\_edTech\_and\_Product\_Bas print(f"All Oranges are Apples: {All\_Oranges\_are\_Apples}")

print(f"Data Type : {type(All\_Oranges\_are\_Apples)}")

In [2]:

iNeuron is an evolutionary firm for edTech and Product Based Services: True Data Type : <class 'bool'>

All Oranges are Apples: False Data Type : <class 'bool'>

**while**(1):

print("1 works like True")

**break else**:

print("Outside of loop") print("-"**\***60)

**while**(0):

print("inside loop")

**break else**:

print("0 work like False")

1 works like True

0 work like False

# Q2. What are the three different types of Boolean operators?

**Ans :** The three basic kind of boolean operators in python are: OR , AND and, NOT operator, they return bool values ( True or False ) as output.

In [3]:

*# For AND operator*

print(5**>**2 **and** 2**>**1) *# AND operator gives True as output when both conditions are True*

print(5**>**10 **and** 9**>**8) *# print(False and True) --> False* print(15**>**10 **and** 1**>**10) *# print(True and False) --> False* print(5**>**10 **and** 9**>**10) *# print(False and False) --> False*

True False False False

In [4]:

*# for OR operator*

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print(5**>**12 **or** 2**>**11) *# AND operator gives False as output when both conditions are Fa*

print(5**>**10 **or** 9**>**8) *# print(False and True) --> True*

print(15**>**10 **or** 1**>**10) *# print(True and False) --> True*

print(15**>**10 **or** 19**>**10) *# print(False and False) --> True*

In [5]:

False True True True

True False

*# for NOT operator*

print(**not**(1**>**100)) *# 1 > 100 gives False because 1 is not greator than 100 but not op*

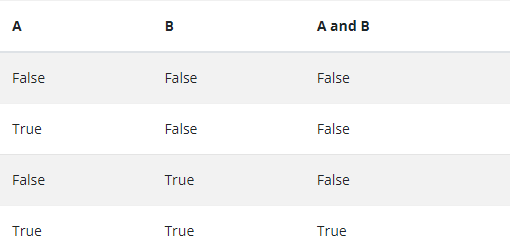
print(**not**(100**>**1)) *# 100 > 1 gives True and not(100>1) --> not(True) gives False*

# Q3. 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:** Just, Above this question I display all the possible values for two columns using and , or and, not .

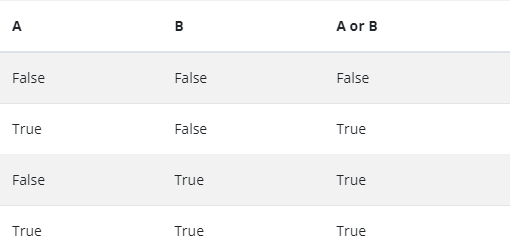
The Truth tables for the boolean tables are as follows:

***For AND Operator:***

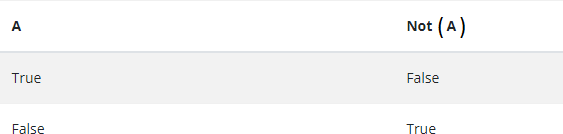


***For OR Operator:***

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***For NOT Operator:***



# Q4. What are the values of the following expressions ?

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

(ii). not (5 > 4)

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

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

(v). (True and True) and (True == False)

(vi). (not False) or (not True)

In [6]:

**from** prettytable **import** PrettyTable

A **=** (5 **>** 4)

B **=** (3 **==** 5)

C **=** (**True and True**) D **=** (**True == False**) E **=** (**not False**)

F **=** (**not True**)

print(f"A = (5 > 4)

print(f"B = (3 == 5)

print(f"C = (True and True) print(f"D = (True == False) print(f"E = (not False)

==> {(5 **>** 4)}")

==> {(3 **==** 5)}")

==> {(**True and True**)}")

==> {(**True == False**)}")

==> {(**not False**)}")

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print(f"F = (not True)

print("Truth Table:")

PTables **=** PrettyTable()

==> {(**not True**)}\n")

PTables**.**field\_names **=** ["A", "B", "A and B", "not(A)", "A or B", "not(A or B)", "C an

PTables**.**add\_row([A, B, A **and** B, **not** A, A **or** B, **not** A **or** B, C **and** D, E **or** F]) print(PTables)

A = (5 > 4) ==> True

B = (3 == 5) ==> False

C = (True and True) ==> True D = (True == False) ==> False

|  |  |  |  |
| --- | --- | --- | --- |
| E = | (not False) | ==> | True |
| F = | (not True) | ==> | False |

Truth Table:

+------+-------+---------+--------+--------+-------------+---------+--------+

| A | B | A and B | not(A) | A or B | not(A or B) | C and D | E or F |

+------+-------+---------+--------+--------+-------------+---------+--------+

| True | False | False | False | True | False | False | True |

+------+-------+---------+--------+--------+-------------+---------+--------+

**Q5. What are the six comparison operators? Ans :** The Six Comparison operators are:

In [7]:

A**=**9 B**=**5

print("A = 9") print("B = 5\n")

PTables **=** PrettyTable()

PTables**.**field\_names **=** ["Operators", "Description", "Syntax", "Output"]

PTables**.**add\_row([">", "Greater than: True if the left operand is greater than the ri PTables**.**add\_row(["<", "Less than: True if the left operand is less than the right", PTables**.**add\_row(["==", "Equal to: True if both operands are equal", "A == B", A **==** B PTables**.**add\_row(["!=", "Not equal to – True if operands are not equal", "A != B", A PTables**.**add\_row([">=", "Greater than or equal to: True if left operand \

is greater than or equal to the right", "A >= B", A **>=** B])

PTables**.**add\_row(["<=", "Less than or equal to: True if left operand \ is less than or equal to the right", "A <= B", A **<=** B])

print(PTables)

A = 9

B = 5

+-----------+-----------------------------------------------------------------------

----------------+--------+--------+

| Operators | Description

| Syntax | Output |

+-----------+-----------------------------------------------------------------------

----------------+--------+--------+

| > | Greater than: True if the left operand is greater than the right | A > B | True |

| < | Less than: True if the left operand is less than the rig ht | A < B | False |

| == | Equal to: True if both operands are equal

| A == B | False |

| != | Not equal to – True if operands are not equal

| A != B | True |

| >= | Greater than or equal to: True if left operand is greater than or equ al to the right | A >= B | True |

| <= | Less than or equal to: True if left operand is less than or equal to the right | A <= B | False |

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# Q6. How do you tell the difference between the equal to and assignment operators? Describe a condition and when you would use one ?

**Ans :** == is the equal to operator that compares two values and evaluates to a Boolean, while

= is that assignment operator that stores a value in a variable.

In [8]:

tech\_neuron\_price **=** 7080 *# Assignment operator "=" assign the price value*

coupon **=** "KRISH10" *# Assignment operator "=" assign the Coupon value*

**if** coupon **==** "KRISH10": *# Conditional operator check the Coupon value for resulting*

tech\_neuron\_price **-=** tech\_neuron\_price **\*** 0.1

print(f"You successfully applied the coupon : {coupon}") print(f"Total Price : {tech\_neuron\_price}")

**else**:

print("Invalid coupon code")

print(f"Total Price : {tech\_neuron\_price}")

You successfully applied the coupon : KRISH10 Total Price : 6372.0

# Q7. 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')

**Ans :** In Python, code block refers to a collection of code that is in the same block or indent. This is most commonly found in classes, functions, and loops.

In [9]:

spam **=** 0

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

print('eggs') *# first block*

**if** spam **>** 5:

print('bacon') *# second block*

**else**:

print('ham') *# third block*

print('spam')

print('spam')

ham spam spam

# Q8. 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.

In [10]:

**def** f(spam):

**if** spam**==**1:

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print('Hello')

**elif** spam**==**2:

print('Howdy')

**else**:

print('Greetings!')

f(1)

f(2)

f("kuch bhi")

Hello Howdy

Greetings!

# Q9.If your programme is stuck in an endless loop, what keys you’ll press?

**Ans :** Press Ctrl + C to stop a program execution while stucked in an infinite loop

In [11]:

**while**(1):

print("ineuron") *# Without breaking conditioor break statement the loop stucked in #break*

*# CTRL + C used to interrupt the execution*

**Streaming output truncated to the last 5000 lines.**

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KeyboardInterrupt

Traceback (most recent call last)

<ipython-input-11-6ea9fe1e5933> in <module>()

**1** while(1):

----> 2 print("ineuron") # Without breaking conditioor break statement the loop st ucked into infinite execution

1. #break
2. # CTRL + C used to interrupt the execution

/usr/local/lib/python3.7/dist-packages/ipykernel/iostream.py in write(self, string)

**396**

**397**

--> 398

**399**

**400**

string = string.decode(self.encoding, 'replace')

is\_child = (not self.\_is\_master\_process())

# only touch the buffer in the IO thread to avoid races

self.pub\_thread.schedule(lambda : self.\_buffer.write(string))

/usr/local/lib/python3.7/dist-packages/ipykernel/iostream.py in \_is\_master\_process(s

elf)

**306**

KeyboardInterrupt:

|  |  |  |
| --- | --- | --- |
| **307** | def | \_is\_master\_process(self): |
| --> 308 |  | return os.getpid() == self.\_master\_pid |
| **309** |  |  |
| **310** | def | set\_parent(self, parent): |

# Q10. How can you tell the difference between break and continue?

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**Ans :** The break statement will move the execution outside the loop if break condtion is

satisfied. Whereas the continue statement will move the execution to the start of the loop.

In [12]:

*#Above the same example is shown without break statement and here, we used break sta #going into infinite looping condition*

**while**(1):

print("ineuron")

**break** *# Break statement saves this loop to gone under infinite execution*

ineuron

# Q11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?

**Ans :** No difference in output but Syntatical differences are as follows:

1. The **range(10)** call range from 0 to 9 (but not include 10)
2. The **range (0,10)** explicitly tells the loop to start at 0
3. The **range(0,10,1)** explicitly tells the loop to increase the variable by 1 on each iteration.

In [13]:

**for** i **in** range(10): *# only end is mention that is 10 but loop executes 0 - 9 (end-1*

print(i, end**=**" ")

0 1 2 3 4 5 6 7 8 9

In [14]:

**for** i **in** range(0, 10): *# Both start and end points are given*

print(i, end**=**" ")

0 1 2 3 4 5 6 7 8 9

In [15]:

**for** i **in** range(0, 10, 1): *# Start, End and Step Size are mentioned*

print(i, end**=**" ")

0 1 2 3 4 5 6 7 8 9

# Q12. 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 ?

In [16]:

print("~"**\***10, "Using for - loop", "~"**\***10)

**for** num **in** range(1, 11): print(num, end**=**" ")

print('\n')

print("~"**\***10, "Using while - loop", "~"**\***10)

num**=**1

**while** num **<=** 10:

print(num, end**=**" ") num **+=** 1

~~~~~~~~~~ Using for - loop ~~~~~~~~~~ 1 2 3 4 5 6 7 8 9 10

~~~~~~~~~~ Using while - loop ~~~~~~~~~~ 1 2 3 4 5 6 7 8 9 10

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# Q13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam ?

**Ans :** That function can be called by using module\_name.fuction\_name() generic synax:

spam.bacon()

In [17]:

**class** spam:

**def** bacon(obj): print(obj)

bacon("Hello")

NameError

Traceback (most recent call last)

<ipython-input-17-ff314f3b1d15> in <module>()

**3** print(obj)

**4**

----> 5 print(bacon("Hello"))

NameError: name 'bacon' is not defined

In [20]:

**class** spam:

**def** bacon(obj): print(obj)

spam**.**bacon("Hello")

Hello

In [ ]:

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