**PYTHON BASIC ASSIGNMENT**

**Assignment – 2**

**Answer 1:**

In Boolean we have iterators either True or False which can be denoted by 0(False) and 1(True).

**Answer 2:**

There are 3 types of Boolean operators:

AND – this operator multiplies the Boolean values. Eg: 0 AND 1 = 0

OR – this operator adds the Boolean values. Eg: 0 OR 1 = 1

NOT – this operator changes the Boolean value to the other. Eg: ~0 = 1

**Answer 3:**

**(AND) TRUTH TABLE**

|  |  |  |
| --- | --- | --- |
| **X** | **Y** | **AND** |
| **0** | **0** | **0** |
| **0** | **1** | **0** |
| **1** | **0** | **0** |
| **1** | **1** | **1** |

**(OR) TRUTH TABLE**

|  |  |  |
| --- | --- | --- |
| **X** | **Y** | **OR** |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

**(NOT) TRUTH TABLE**

|  |  |
| --- | --- |
| ~AND | ~OR |
| 1 | 1 |
| 1 | 0 |
| 1 | 0 |
| 0 | 0 |

**Answer 4:**

FALSE

FALSE

TRUE

FALSE

FALSE

TRUE

**Answer 5:**

< , > ,== , != , <= ,>=

**Answer 6:**

The difference between equal to and assignment operator is that equal to compares the values while assignment operator assigns the values to the variable.

Eg: For equal to- if x == 3:

print(x)

For assignment operator- x = 3

**Answer 7:**

First is ‘if’ block

Second is also ‘if’ block

Third is ‘else’ block

**Answer 8:**

if spam == 1:

print(‘Hello’)

elif spam == 2:

print(‘Howdy’)

else:

print(‘Greetings’)

**Answer 9:**

Ctrl + d

**Answer 10:**

Break statement breaks the code at that instant and gets you out of the current loop whereas continue statement keeps the code ongoing whether the condition is satisfied or not.

**Answer 11:**

All the three loop will provide the same output i.e. [0,1,2,3,4,5,6,7,8,9] ; the difference between them is that in range(10) we have not initialized the starting point so by default it will start with 0 and end till 9; whereas in range(0,10) we have defined that the starting point will be 0 and ending point will be 10 ; and in range(0,10,1) we have provided the step function that the range will start with 0 , end with 1 with the jump or step of 1.

**Answer 12:**

For loop

for i in range(1,11):

print(i)

while loop

n = 1

while n<=10:

print(n)

n=n+1

**Answer 13:**

from spam import bacon