**Assignment 2**

1]

True or false

print(bool(10))     # True   int to bool except 0 everything is true

print(bool(0.0))    # False  float bool except 0 everything is true

print(bool('Hello')) # True  Str to bool except '' everything is true

2]

AND, OR, NOT

3}

**AND OR NOT**

T & T = T F OR F = F True becomes false

T & F = F T OR F = T False becomes true

F & T = F F or T = T

F & F = F F OR F = T

4]

print(bool(5 > 4))  # True

print(bool(3 == 5)) # False

print(bool(not(5 > 4)))   # Not(True) is False

print(bool(5 > 4) or (3 == 5))  # True

print(bool (not(5 > 4) or (3 == 5)))  # Not(True) is False

print(bool (True and True) and (True == False)) # True and false = False

print(bool (not False) or (not True))  # True

5}

Six comparision operator

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

6]

When we wnt to check two conditions ==

num = 8

for i in range(2,num+1):

    if num % i == 0:

        print('success')

Assignment operator assign value to variable

count = 0

while count<=10:

    print(count)

    count = count +1

7}

for spam in range(1,11):

    if spam == 5:

        print('bacon')

        continue

    elif spam == 10:

        print('eggs')

    else:

        print('ham')

**output:**

ham

ham

ham

ham

bacon

ham

ham

ham

ham

eggs

8]

for spam in range(1,6):

    if spam == 1:

        print('Hello')

    elif spam == 2:

        print('Howdy')

    else:

        print('Greetings!')

Output:

Hello

Howdy

Greetings!

Greetings!

Greetings!

9]

To stop infinite loop **control + c**

10]

Break – it beaks the loop when condition matches

Continue – when condition matches it prints and continues till the final conditions gets executed.

11]

range(10), range(0, 10), and range(0, 10, 1)

* **range(10)**

Internally it take start value default o and prints condition <10

prints **o/p** prints 0 to 9

for num in range(10): # start = 0, condition < 10

    print(num)

* **range(0, 10)**

same as range(10)

for num in range(0,10): # start = 0, condition < 10

    print(num)

* **range(0, 10, 1)**

same as range(10)

prints **o/p** prints 0 to 9

for num in range(0,10,1): # start = 0, condition < 10, increment = 1

    print(num)

If incremented by then o/p is 0,2,4,6,8

for num in range(0,10,2): # start = 0, condition < 10, increment = 2

    print(num)

12}

**Using for loop**

for num in range(1,11):

    print(num)

**using While loop**

count = 1

while count <=10:

    print(count)

    count = count + 1

13}

Module name.function name

Spam.bacon()