```
In [4]: # ------ Arithmetic Operators -----
        a = 4
        b = 3
        g = a
        g += a
In [6]: print(a * b + a)
        print(a / b)
        print(a // b)
        print(a ** b)
        print(g)
        16
        1.33333333333333333
        64
        8
In [13]: #----- Comparison Operators -----
        # => the result is always in Boolean
        print(a != b)
        print(a >= b)
        True
        True
In [22]: # Be Careful!
        #It's wrong to use this form. --> print(! (a >= b))
        print(not (a >= b))
        False
        #----- Logical Operators -----
In [20]:
        a = 7
        b = 4
        print((a > b and a - 2 < b) or (a > b))
        True
In [32]: | #------ Bit-Wise Operators -----
        a = 11 # a = 01011
        b = 5 # b = 00101
        print(a | b) #01111 --> 15
        print(a & b) #00001 --> 1
        print(not(a)) # not (all none-zero number) = False
        print(not(0))
        print(a << 2) # n shift to left --> * 2^n
        print(a >> 2)
        15
        1
        False
        True
        44
In [40]: | #----- Membership Operators -----
        name = "Kaveh"
        my list = [name, 123, 1, 1, 2, 3]
        my_set = set(my_list)
        my_tuple = (name, 625, 25, 5)
        my_dictionary = {"my_name" : "Kaveh"}
        print('K' in name)
        print(1234 in my_list)
        print(name not in my_list)
        print("----")
        print(1 in my_set)
        print(5 ** 3 in my tuple)
        print(name in my_dictionary.values())
        True
        False
        False
        _____
        True
        False
        True
In [41]:
        #----- Indentity Operators -----
        # non-primitive data
        a = [1, 2, 3]
        b = [1, 2, 3]
        c = a
        d = a.copy()
        print(a is b)
        print(a is c)
        print(a is d)
        False
        True
        False
In [42]: a.append(4)
In [44]: print(a)
        print(b)
        print(c)
        [1, 2, 3, 4]
        [1, 2, 3]
        [1, 2, 3, 4]
In [ ]:
```