# **Python Operators**

#### Operators are used to perform operations on variables and values

```
• Arithmetic operators
                                                  //
• Assignment operators
                                             /=
                                                  =
• Comparison operators
                                        >
                                                  >=
• Logical operators
                             and
                                        or
                                                  not
• Membership operators
                       #
                             in
                                        not in
• Bitwise operators
                             AND
                                        OR
                                                  XOR
                                                             NOT
```

# **Arithmetic operator**

#### **Assignment operator**

$$x = 3$$
 =  $x = 3$   
 $x += 3$  =  $x = x + 3$   
 $x -= 3$  =  $x = x - 3$   
 $x *= 3$  =  $x = x / 3$   
 $x /= 4$  =  $x = x / 3$ 

### **Comparison operator**

x = int(input("Enter 1 Digits :- ")) # 10 y = int(input("Enter 2 Digits :- ")) # 2 print('Equal :- ', x==y) # False print('Not equal :- ', x!=y) True # print('Less Than :- ', x<y)</pre> False # print('Greater Than :- ', x>y) True # print('Less than equal :- ', x<=y)</pre> False # print('Greater than equal :- ',  $x \ge y$ ) # True

### **Logical operators**

and -- Returns True if both Statements are True

$$x = int(input("Enter Digits :- "))$$
 # 10  
print( x>5 and 12>x ) # True

or -- Returns True if one of the Statements is True

$$x = int(input("Enter Digits :- "))$$
 # 10  
print( x>5 or x<6 ) # True

not -- Reverse the result, Returns True if the result is False

$$x = int(input("Enter Digits :- "))$$
 # 10  
print(not( x>5 and x<12 )) # False

### **Membership operators**

in -- Returns True if a sequence with the specified value is present in the object

in not -- Returns True if a sequence with the specified value is not present in the object

## **Bitwise operators**

&	AND	Sets each bit to 1 if both bits are 1
	OR	Sets each bit to 1 if one of the two bits is 1
٨	XOR	Sets each bit to 1 if only one of two bits is 1
~	NOT	Inverts all the bits