

Python Arithmetic Operators		
Addition	9 + 2	>> 11
Subtraction	9 - 2	>> 7
Multiplication	9 * 2	>> 18
Division	9 / 2	>> 4.5
Modulus	9 % 2	>> 1
Exponentiation	3 ** 2	>> 81
Floor division	9 // 2	>> 4

Python Assignment Operators		
Operator	Example	Same As
=	x = 2	x = 2
+=	x += 2	x = x + 2
-=	x -= 2	x = x - 2
*=	x *= 2	x = x * 2
/=	x /= 2	x = x / 2
%=	x %= 2	x = x % 2
//=	x //= 2	x = x // 2
**=	x **= 2	x = x ** 2

Python Comparison Operators		
Equal	x == y	
Not equal	x != y	
Greater than	x > y	
Less than	x < y	
Greater than or equal to	x >= y	
Less than or equal to	x <= y	

Boolean Values	
In programming you often need to know if an expression is <code>True</code> or <code>False</code> . You can evaluate any expression in Python, and get the answer.	
<code>print(5 < 8)</code>	<code>>>> True</code>
<code>print(5 > 8)</code>	<code>>>> False</code>

Python Logical Operators	
<code>and</code>	Returns True if both statements are true
<code>x < 5 and x < 10</code>	
<code>or</code>	Returns True if one of the statements is true
<code>x < 5 or x < 4</code>	
<code>not</code>	Reverse the result, returns False if the result is true
<code>not(x < 5 and x < 10)</code>	

Python Identity Operators	
<code>is</code>	Returns true if both variables are the same object
<code>x is y</code>	
<code>is not</code>	Returns true if both variables are not the same object
<code>x is not y</code>	

Python Membership Operators	
<code>in</code>	Returns True if a sequence with the specified value is present in the object
<code>x in y</code>	
<code>not in</code>	Returns True if a sequence with the specified value is not present in the object
<code>x not in y</code>	

Python Bitwise Operators		
<code>&</code>	AND	Sets each bit to 1 if both bits are 1
<code> </code>	OR	Sets each bit to 1 if one of two bits is 1
<code>^</code>	XOR	Sets each bit to 1 if only one of two bits is 1
<code>~</code>	NOT	Inverts all the bits
<code><<</code>	Zero fill left shift	Shift left by pushing zeros in from the right and let the leftmost bits fall off
<code>>></code>	Signed right shift	Shift right by pushing copies of the leftmost bit in from the left, and let the rightmost bits fall off