Arithmetic operators:

An arithmetic operator performs mathematical operations like addition, subtraction, division and multiplication.

Operator	Meaning	Example
+	Add two operands	>>>5+4 9
-	Subtract two operands	>>>6 - 4 2
*	Multiply two operands	>>>2*10 20
1	divide the left oferend by right operand	>>>5/2 2.5
%	which will give us remindar part	>>>5%3 2
//	which will give integer part	>>>5//3 1
**	raised to the power	>>>5**3 125

Comparisons operator

If two operands values are equal, then the condition becomes true. Sealse	Comparisons operator		Example
relation becomes true. If two operands values are equal, then condition becomes true. If the value of left operand is greater than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true.	Operator	Description	
condition becomes true.	==	If two operands values are equal, then the	
<pre>!= values of two operands are not equal, then condition becomes true.</pre>			False
condition becomes true. If the value of left operand is greater than the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. If the value of left operand, then condition becomes true. If the value of right operand, then condition becomes true. If the value of left operand is greater than or equal to the value of right operand, then condition becomes true. It is the value of left operand is less than the operand is greater than condition becomes true.	1-		>>>5!=3
the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. a condition becomes true condition becomes condition becomes condition becomes condition condition becomes condition becomes condition con	;-		True
the value of right operand, then condition becomes true. If the value of left operand is less than the value of right operand, then condition becomes true. a condition	>	If the value of left operand is greater than	>>>4>3
<pre>If the value of left operand is less than the value of right operand, then condition becomes true. >= greater than equal: If the value of left operand is greater than or equal to the value of right operand, then condition becomes true. <= less than e >>>4<=6</pre>			True
value of right operand, then condition becomes true. >= greater than equal: If the value of left operand is greater than or equal to the value of right operand, then condition becomes true. <= less than e >>>4<=6		becomes true.	
becomes true. >= greater than equal: If the value of left >>>5>=6 operand is greater than or equal to the value of right operand, then condition becomes true. <= less than e >>>4<=6	<	If the value of left operand is less than the	>>>6<4
<pre>>= greater than equal: If the value of left operand is greater than or equal to the value of right operand, then condition becomes true. <= less than e</pre>		value of right operand, then condition	False
operand is greater than or equal to the value of right operand, then condition becomes true. <= less than e >>>4<=6		becomes true.	
of right operand, then condition becomes true. <= less than e >>>4<=6	>=	greater than equal: If the value of left	>>>5>=6
true. <= less than e >>>4<=6		operand is greater than or equal to the value	False
<= less than e >>>4<=6		of right operand, then condition becomes	
		true.	
True	<=	less than e	>>>4<=6
			True

Logical operators

- Logical operators is Boolean expressions such as and, or, not.
- It is just a conditional test that a result is either True or False.

operator	Description	Example
And	it two operands are true it	>>> True and True
	become true	True
		>>>False and True
		False
Or ,	it two operands are non-zero	>>>True or False
	then condition becomes true.	True
		>>>False or False
		False
Not	It is used to reverse the logical	>>>not True
	state of its operand.	False
		>>>not not not True
		False

Assignment operator:

Operator	Description	Example
=	Assigns values from right side operands to left side operand	>>>x=20
+=	It adds right operand to the left operand and assign the result to left operand	#R.A. 점점점점 : 2000 : 2001 : [10] : [1
-=	It subtracts right operand from the left operand and assign the result to left operand	>>>x-=20
=	It multiplies right operand with the left operand and assign the result to left operand	>>>x=50
/=	It divides left operand with the right operand and assign the result to left operand	>>>x/=50
%=	It takes modulus using two operands and assign the result to left operand	>>>x%=50
=	Performs exponential (power) calculation on operators and assign value to the left operand	>>>x=50
//=	It performs floor division on operators and assign value to the left operand	>>>x//=50

Membership operator

operator	Description	Example
in	Evaluates to true if it finds a	>>>x="python"
	variable in the specified sequence	>>>'p' in x
	and false otherwise.	True
not in	Evaluates to true if it does not	>>>x="python"
	finds a variable in the specified	>>>'z' in x
	sequence and false otherwise.	False

Bitwise operators

Operator	Description	Example
&	Operator copies a bit to the result if it exists in both operands	>>>10&20 0
1	It copies a bit if it exists in either operand.	>>>10 20 30
^	It copies the bit if it is set in one operand but not both.	>>>10^20 30
~	It is unary and has the effect of 'flipping' bits.	>>>~20 -21
<<	The left operands value is moved left by the number of bits specified by the right operand.	1 >>> 10 2
>>	The left operands value is moved right by the number of bits specified by the right operand.	1>>>10>>>

Identity operators

Operator	Description	Example
is	Evaluates to true if the variables	>>>x="hello"
	on either side of the operator point	>>>y="hello"
	to the same object and false	>>>x is y
	otherwise.	True
is not	Evaluates to false if the variables	>>>x="hello"
	on either side of the operator point	>>>y="hello"
	to the same object and true	>>>x is not y
	otherwise.	False