## PYTHON OPERATORS PRECEDENCE EXAMPLE

http://www.tutorialspoint.com/python/operators\_precedence\_example.htm

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The following table lists all operators from highest precedence to lowest.

Operator	Description
**	Exponentiation raisetothepower
~ + -	Ccomplement, unary plus and minus methodnamesforthelasttwoare + @and - @
* / % //	Multiply, divide, modulo and floor division
+ -	Addition and subtraction
>> <<	Right and left bitwise shift
&	Bitwise 'AND'td>
^	Bitwise exclusive `OR' and regular `OR'
<= < > >=	Comparison operators
<> == !=	Equality operators
= %= /= //= -= += *= **=	Assignment operators
is is not	Identity operators
in not in	Membership operators
not or and	Logical operators

Operator precedence affects how an expression is evaluated.

For example, x = 7 + 3 \* 2; here, x is assigned 13, not 20 because operator \* has higher precedence than +, so it first multiplies 3\*2 and then adds into 7.

Here, operators with the highest precedence appear at the top of the table, those with the lowest appear at the bottom.

## Example

```
#!/usr/bin/python
a = 20
b = 10
c = 15
d = 5
e = 0
e = (a + b) * c / d
                        #( 30 * 15 ) / 5
print "Value of (a + b) * c / d is ", e
e = ((a + b) * c) / d
                       # (30 * 15 ) / 5
print "Value of ((a + b) * c) / d is ",
                                      е
e = (a + b) * (c / d);
                        # (30) * (15/5)
print "Value of (a + b) * (c / d) is ", e
e = a + (b * c) / d; # 20 + (150/5)
```

print "Value of a + (b \* c) / d is ", e

When you execute the above program, it produces the following result -

```
Value of (a + b) * c / d is 90
Value of ((a + b) * c) / d is 90
Value of (a + b) * (c / d) is 90
Value of a + (b * c) / d is 50
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```