

Python Special Method Names

Math-like Operators		
Expression	Method name	Description
$x + y$	<code>__add__()</code>	Addition
$x - y$	<code>__sub__()</code>	Subtraction
$x * y$	<code>__mul__()</code>	Multiplication
x / y	<code>__div__()</code>	Division
$x == y$	<code>__eq__()</code>	Equality
$x > y$	<code>__gt__()</code>	Greater Than
$x \geq y$	<code>__ge__()</code>	Greater Than or Equal
$x < y$	<code>__lt__()</code>	Less Than
$x \leq y$	<code>__le__()</code>	Less Than or Equal
$x \neq y$	<code>__ne__()</code>	Not Equal
Sequence Operators		
<code>len(x)</code>	<code>__len__()</code>	length of the sequence
<code>x in y</code>	<code>__contains__()</code>	does the sequence y contain x
<code>x[key]</code>	<code>__getitem__()</code>	access element <i>key</i> of sequence x
<code>x[key]=y</code>	<code>__setitem__()</code>	set element <i>key</i> of sequence x to value y
General Class Operations		
<code>x=myClass()</code>	<code>__init__()</code>	constructor
<code>print(x), str(x)</code>	<code>__str__()</code>	convert to a readable string
	<code>__repr__()</code>	print a representation of x
	<code>__del__()</code>	finalizer, called when x is garbage collected

TABLE 12.1 Python special method names.