Phụ lục I. Danh sách toán tử và phụ lục

Operat or	Name	Explanation	Examples
+	Plus	Adds the two objects	3 + 5 gives 8. 'a' + 'b' gives 'ab'.
-	Minus	Either gives a negative number or gives the subtraction of one number from the other	-5.2 gives a negative number. 50 - 24 gives 26.
*	Multip ly	Gives the multiplication of the two numbers or returns the string repeated that many times.	2 * 3 gives 6. 'la' * 3 gives 'lalala'.
**	Power	Returns x to the power of y	3 ** 4 gives 81 (i.e. 3 * 3 * 3 * 3)
/	Divide	Divide x by y	4/3 gives 1 (division of integers gives an integer). 4.0/3 or 4/3.0 gives1.33333333
//	Floor Divisio n	Returns the floor of the quotient	4 // 3.0 gives 1.0
%	Modul o	Returns the remainder of the division	8%3 gives 225.5%2.25 gives 1.5.
<<	Left Shift	Shifts the bits of the number to the left by the number of bits specified. (Each number is represented in memory by bits or binary digits i.e. 0 and 1)	2 << 2 gives 8 2 is represented by 10 in bits. Left shifting by 2 bits gives 1000 which represents the decimal 8.
>>	Right Shift	Shifts the bits of the number to the right by the number of bits specified.	11 >> 1 gives 5 - 11 is represented in bits by 1011 which when right shifted by 1 bit gives101 which is nothing but decimal 5.
&	Bitwis e AND	Bitwise AND of the numbers	5 & 3 gives 1.
	Bit- wise OR	Bitwise OR of the numbers	5 3 gives 7
^	Bit- wise XOR	5 ^ 3 gives 6	Â
~	Bit- wise invert	The bit-wise inversion of x is - $(x+1)$	~5 gives -6.

Operat or	Name	Explanation	Examples
<	Less Than	Returns whether x is less than y. All comparison operators return 1 for true and 0 for false. This is equivalent to the special variables True and False respectively. Note the capitalization of these variables' names.	5 < 3 gives 0 (i.e. False) and 3 < 5 gives 1 (i.e. True). Comparisons can be chained arbitrarily: 3 < 5 < 7 gives True.
>	Greate r Than	Returns whether x is greater than y	5 < 3 returns True. If both operands are numbers, they are first converted to a common type. Otherwise, it always returns False.
<=	Less Than or Equal To	Returns whether x is less than or equal to y	$x = 3$; $y = 6$; $x \le y$ returns True.
>=	Greate r Than or Equal To	Returns whether x is greater than or equal to y	x = 4; $y = 3$; $x >= 3$ returns True.
==	Equal To	Compares if the objects are equal	<pre>x = 2; y = 2; x == y returns True. x = 'str'; y = 'stR'; x == y returnsFalse. x = 'str'; y = 'str'; x == y returns True.</pre>
!=	Not Equal To	Compares if the objects are not equal	x = 2; $y = 3$; $x != y $ returns True.
not		If x is True, it returns False. If x is False, it returns True.	x = True; not y returns False.
and	Boolea n AND	x and y returns False if x is False, else it returns evaluation of y	x = False; y = True; x and y returns False since x is False. In this case, Python will not evaluate y since it knows that the value of the expression will has to be false (since x is False). This is called short- circuit evaluation.
or	Boolea n OR	If x is True, it returns True, else it returns evaluation of y	x = True; y = False; x or y returns True. Short-circuit evaluation applies here as well.