LUA - ARITHMETIC OPERATORS

Following table shows all the arithmetic operators supported by Lua language. Assume variable **A** holds 10 and variable **B** holds 20, then —

Operator	Description	Example
+	Adds two operands	A + B will give 30
-	Subtracts second operand from the first	A - B will give -10
*	Multiply both operands	A * B will give 200
/	Divide numerator by de-numerator	B / A will give 2
%	Modulus Operator and remainder of after an integer division	B % A will give 0
^	Exponent Operator takes the exponents	A^2 will give 100
-	Unary - operator acts as negation	-A will give -10

Example

Try the following example to understand all the arithmetic operators available in the Lua programming language —

```lua
a = 21
b = 10
c = a + b

print("Line 1 - Value of c is ", c )
c = a - b

print("Line 2 - Value of c is ", c )
c = a * b

print("Line 3 - Value of c is ", c )
c = a / b

print("Line 4 - Value of c is ", c )
c = a % b

print("Line 5 - Value of c is ", c )
c = a^2

print("Line 6 - Value of c is ", c )
c = -a

print("Line 7 - Value of c is ", c )
```

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

```
Line 1 - Value of c is   31
Line 2 - Value of c is   11
Line 3 - Value of c is   210
Line 4 - Value of c is   2.1
Line 5 - Value of c is   1
Line 6 - Value of c is   441
Line 7 - Value of c is   -21
```