

# Week 1 Evaluation, Variables and Turtle

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In this exercise, try to come up with the answer without using IDLE/Python first. Then type the expressions into IDLE to verify your answers. The objective is for you to understand why and how they work.

## Part 1 Arithmetic Evaluation

Code	Output
<code>3 * 4 + 5</code>	
<code>3 + 4 * 5</code>	
<code>5 ** 3 % 4</code>	
<code>97 / 4</code>	
<code>97 // 4</code>	

## Part 2 Logical Evaluation

Code	Output
<code>3 + 2 == 1 + 4</code>	
<code>4 &gt; 4</code>	
<code>True or False</code>	
<code>not False</code>	
<code>not not True</code>	
<code>not 0</code>	
<code>not 9999</code>	

### Part 3 String Evaluation

Code	Output
'abc' + 'def'	
'gala' * 3	
'mu' + 'ha' * 4	
('ba '*2+'bidu'*2+'bi ' + 'jam '*2)*3	
'banana'[3]	
'banana'[2:4]	

### Part 4 Operator Precedence

Code	Output
1 + 2 * 3	
1 + 2 * 3 **4	
1 + 2 * 3 **4 - 5	
not 0 + 1	

### Part 5 Turtle Graphics

You can draw pictures with the ***turtle*** package in Python. Try out the following commands and guess what they will do.

```
>>> from turtle import *
>>> fd(100)
>>> rt(90)
>>> fd(100)
>>> rt(90)
>>> fd(100)
>>> rt(90)
>>> fd(100)
>>>
```