

VARIABLES AND MATHEMATICAL OPERATORS

VARIABLES

- Variables are assigned values.
- A box filled with an object is a similar process.

MATHEMATICAL OPERATORS

Addition	+
Subtraction	-
Multiplication	*
Power	**
Division	/
Floor Division	//
Modulus	%
Integer	<code>int</code> (number)
Float	<code>float</code> (number)

In [19]:

```
100 + 5
100 - 5
100 * 5
100 / 5
```

Out[19]:

20.0

In [89]:

```
print(4*4*4)
print(4**3)
```

64
64

In [3]:

```
box1 = 12
box2 = 100
box3
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-3-7e7408937c3a> in <module>()
      1 box1 = 12
      2 box2 = 100
----> 3 box3
```

NameError: name 'box3' is not defined

~~.....~~ : NAME 'BOX3' IS NOT DEFINED

In [91]:

```
box3 = 300
box3
a, b, c = 20, 30, 40
a
b
c

num = a + b * c / 2
num
```

Out[91]:

620.0

In [82]:

```
x = 22 ; y = 32; z = 42.123456
x
y
z
type(z)
int(z)
type(int(z))
```

Out[82]:

int

In [77]:

```
var = 5
print(40/var)
print(40 //var)
print(40 % var)
print(40- (8*var))
```

8.0
8
0
0