

# Python101

July 22, 2018

```
In [1]: # Simple addition
        5+98
```

```
Out[1]: 103
```

```
In [2]: #-v value addition
        -34+4
```

```
Out[2]: -30
```

```
In [3]: #Simple Substraction
        56-34
```

```
Out[3]: 22
```

```
In [4]: #Simple Division
        21/7
```

```
Out[4]: 3.0
```

```
In [5]: # Division without a floating value as answer
        21//7
```

```
Out[5]: 3
```

```
In [6]: #division with floating values
        52.777777/32.34444
```

```
Out[6]: 1.6317418697000166
```

```
In [7]: #simple multiplication
        56*4
```

```
Out[7]: 224
```

```
In [8]: #exponential function
        2**5
```

```
Out[8]: 32
```

```
In [10]: #order of operation follows PEDMAS="Parenthesis ,exponential,Division,multiplication,  
#addition-subtraction
```

```
5*2+(2+3)*4/2
```

```
Out[10]: 35.0
```

```
In [12]: ##variables--"its a container for some values."  
my_variable=30  
my_variable2=40  
my_variable
```

```
Out[12]: 30
```

```
In [13]: my_variable2
```

```
Out[13]: 40
```

```
In [14]: #python is a case sensitive language  
My_variable
```

---

```
NameError                                Traceback (most recent call last)
```

```
<ipython-input-14-cae254a64efc> in <module>()  
    1 #python is a case sensitive language  
----> 2 My_variable
```

```
NameError: name 'My_variable' is not defined
```

```
In [ ]: # It will throw in an error as M is in caps
```

```
In [15]: #we can perform arithmetic operations on the variables  
my_variable+my_variable2
```

```
Out[15]: 70
```

```
In [17]: # we can store this operation in another variable  
my_addition=my_variable+my_variable2  
my_addition
```

```
Out[17]: 70
```

```
In [18]: #getting user_input  
value=input("Enter a Value:")
```

Enter a Value:2

In [19]: value

Out[19]: '2'

In [20]: *# any value the user returns is a string so we need to change the data type to perform*

In [23]: *# so what we can do is*  
value=int(input("Enter a value :"))

Enter a value :50

In [24]: value+60

Out[24]: 110

In [25]: *#COOL!!*

In [ ]: