In [82]:
```
#SIMPLE CALCULATIONS
```

In [83]:
```
#1.Add two integers together
print(1+2)
```

```
3
```

In [84]:
```
#2.parenthesis changes the order of operations when using multiplication and a
ddition
ex1 = 1 + 3 * 3
print(ex1)

ex2 = (1+3) * 3
print(ex2)
```

```
10
12
```

In [85]:
```
#3. square and cube numbers
square = 5 ** 2
print("squared = " + str(square))

cube = 5 ** 3
print("cubed = " + str(cube))
```

```
squared = 25
cubed = 125
```

In [86]:
```
#4. perform math with variables of nums
num1 = 5
num2 = 2
num3 = 3

add = num1 + num2 + num3
print(add)

mult = num1 * num3
print(mult)
```

```
10
15
```

In [87]:
```
#5. Set var pi = 3.1415.. and round to two decimals
pi = 3.14159265
pi = round(pi,2)
print(pi)
```

```
3.14
```

In [88]:
```
#6. try to divide by 0
div_by_0 = 10 / 0
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-88-4838f81d243f> in <module>()
      1 #6. try to divide by 0
----> 2 div_by_0 = 10 / 0

ZeroDivisionError: division by zero
```

In [89]:
```
#7. Add an integer and float
num = 1 + 3.4532
print(num, "is floating point")
```

```
4.4532 is floating point
```

In [90]:
```
#WORKING With STRINGS
```

In [91]:
```
#1. Enter hellow world
hello = "Hello World!"
print(hello)
```

```
Hello World!
```

In [92]:
```
#2. assign name
first_name = "kevin"
last_name = "paulovici"
print("Hello " + first_name + " " + last_name)
```

```
Hello kevin paulovici
```

In [93]:
```
#3. Calc the number of char in first name
print(len(first_name))
```

```
5
```

In [94]:
```
#4. index the first letter of first name
print(first_name[0])
```

```
k
```

In [95]:
```
#5. index the last letter of last name
print(last_name[-1])
```

```
i
```

In [96]:
```
#6. Add names
print(first_name + " " + last_name)
```

```
kevin paulovici
```

In [97]:
```
#7. mult first name
print(first_name * 2)
```

```
kevinkevin
```

In [98]:
```
#WORKING WITH LISTS
```

In [99]:
```
#1. Create a list of nums from 1 to 5
L = [1,2,3,4,5]
print("L = ", L)
```

```
L =  [1, 2, 3, 4, 5]
```

In [100]:
```
#2. Using indexing, select the second item
print("second item is: ", L[1])
```

```
second item is:  2
```

In [101]:
```
#3. use slicing to get the 2 -4 nums
print("slicing: ", L[1:4])
```

```
slicing:  [2, 3, 4]
```

In [102]:
```
#4. append 6 to the list
L.append(6)
print(L)
```

```
[1, 2, 3, 4, 5, 6]
```

In [103]:
```
#5. replace 2 and 3 with 8 and 9
L[1:3] = [8, 9]
print(L)
```

```
[1, 8, 9, 4, 5, 6]
```