

08-Python-Numbers and Operations

Numbers and Operations

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Numbers, Variables, and Operations

Name	python Name	Example
string, 'str', " mr.ubail "		
Boolean, bool,true false		
integer, int,1 ,2,-100		

```
sum= 1+1  
diff= 10-8
```

Multiplication and Division

```
product = 8 * 8  
divison = 10/2
```

Order of operations

```
#BEDMAS- Brackets.exponents, div/multi, Add/Sub  
answer =(2+3)* 4+2/3
```

Cool

```
# exponents  
ans+ 3**2  
# floor division  
ans= 10//3 #3  
# Modulo  
ans = 10%2 #r0  
ans = 11%2 #r1  
ans = 12%2 #r0  
ans = 13%2 #r1  
# Increment, decrement, multi-rement, divisi-rement  
egg_count = 1  
egg_count += 1 # raise the value of egg-count
```

```
egg_count -= 1                      # decrease value of egg-count
egg_count *= 5                      # multiplies value of egg-count
egg_count /= 2                      # halves the value of egg-count
```

Loops again

Recall:

```
# Repeat something 10 times
for _ in range(10):
    print("This will be printed 10 times.")
```

Another way to loop, over a sequence.

```
grocery_list = [
    "cucumber",
    "eggs",
    "hot wheels",
    "tea"]

for item in grocery_list:
    # Create a bulleted list and print it out
    bulleted_item = "* " + item
    dashes = "— — —"
    print(bulleted_item)
    print(dashes)
```

Output:

```
* cucmbers
— — —
* eggs
— — —
* hot wheels
— — —
* tea
— — —
``
```