## **Arithmetic Operators**

```
In [1]: 1 + 1
Out[1]: 2
In [2]: 4 * 5
Out[2]: 20
In [3]: 5 ** 2
Out[3]: 25
In [4]: 20 / 5
Out[4]: 4.0
In [5]: 20 / 6
Out[5]: 3.333333333333335
In [6]: 20 % 6
Out[6]: 2
```

### **Arithmetic Operators with Strings**

# Comparison, Logical, and Membership Operators

## **Comparison Operators**

```
In [10]: True == True
Out[10]: True
In [11]: 4 < 5
Out[11]: True
In [12]: 5 <= 5
Out[12]: True
In [13]: 5 > 2
Out[13]: True
In [14]: 5 >=2
Out[14]: True
```

#### Logical Operators (and, or, not)

```
In [15]: True and True
Out[15]: True
In [16]: True and False
Out[16]: False
In [18]: True or False
Out[18]: True
In [19]: False or False
Out[19]: False
In [20]: not True
Out[20]: False
```

```
In [21]: not False
Out[21]: True
```

#### **Membership Operators**

```
In [22]: 1 in [1,2,3,4,5]
Out[22]: True
In [24]: 10 not in [1,2,3,4,5]
Out[24]: True
In [26]: 'cat' not in 'my pet cat'
Out[26]: False
In []:
```