

The `for` loop

This example demonstrates a `for` loop. The iterator variable is part of the `for` construct. There are multiple ways of writing the `for` loop. Here we present just one example. The group of numbers in the `for` construct is called a sequence. Specifically, the square brackets indicates that this is a `list`. We will discuss lists later on in this course. The `i` is the iteration variable and it will iterate over, or go through the sequence, one number at a time and execute the body of the loop using the number as input for that iteration.

In [3]:

```
for i in [2,4,8,9,0]:  
    print(i**2)
```

```
4  
16  
64  
81  
0
```

In [2]:

```
'''  
This is another example of the 'for' loop where the sequence is a list of characters.  
'''  
for i in ['a', 'b', 'c', 'd', 'k', 'j', 't']:  
    print(i)
```

```
a  
b  
c  
d  
k  
j  
t
```