Covered in this lesson:

- Enumerate
- Zip
- In
- Min/Max

Enumerate:

```
In [5]: 1 index_count = 0
         3 for letter in 'Star':
               print('at index {} the letter is {}'.format(index_count,letter))
               index_count += 1
        at index 0 the letter is S
        at index 1 the letter is t
        at index 2 the letter is a
        at index 3 the letter is r
In [2]: 1 name = 'Star'
         3 for index,letter in enumerate(name):
             print(index)
         5
              print(letter)
         б
              print('\n')
        0
        S
        1
        t
        2
        3
        r
```

PYTHON HAS BUILT IN SHORTCUT FOR ENUMERATING

Zip is a built-in short cut command in Python for combining lists – lists need to match in size, or Python omits unmatched variables

In keyword (checks if a variable is in a list or dictionary)

"IN" KEYWORD (checks if a variable is in list or dictionary)

```
In [14]:
              list = (1,2,3,4,5)
In [15]:
              1 in list
Out[15]: True
              'a' in 'star'
In [16]:
Out[16]: True
              'star' in {'star':345}
In [18]:
Out[18]: True
              s = {'star':37}
In [19]:
              37 in s.values()
           3
Out[19]: True
```

Min/Max check list for minimum or maximum value in list or dictionary

MIN/MAX KEYWORD SHORTCUTS check for minimum or maximum value in list or dictionary

```
In [20]: 1 list = [25,50,75,100]
In [22]: 1 min(list)
Out[22]: 25
In [23]: 1 max(list)
Out[23]: 100
```