- Begin with Activity 1
- String methods
 - Practice: Favorite song lyrics
- List
 - Practice: Slicing lists and list methods
- For Loops

String methods

<pre>string.lower()</pre>	makes the string		
	lowercase	<pre>string.split('delim')</pre>	returns a list of substrings separated by the given delimiter
<pre>string.upper()</pre>	makes the string uppercase		
		<pre>string.join(list)</pre>	opposite of split(), joins the elements in the
<pre>string.title()</pre>	makes the string titlecase		given list together using the string
<pre>string.strip()</pre>	removes lead and trailing white spaces	<pre>string.startswith('some string')</pre>	tests whether string begins with some string
<pre>string.replace('old string')</pre>	replaces old string with new string		tests whether string
<pre>string', 'new string')</pre>		<pre>string.endswith('some string')</pre>	ends with some string
<pre>string.split('delim')</pre>	returns a list of substrings separated by the given delimiter	<pre>string.isspace()</pre>	tests whether string is a space

Practice: Favorite song lyrics

- Create a new string variable with 2 lines from your favorite song
- Extract the first line from your variable
 - e.g. lemonade_snippet[0:25]
- Replace a word from your song with your favorite fruit and save as a new variable
 - e.g. lemon_in = lemonade_snippet.replace("up", "lemon")

Slicing lists

Slice	Explanation	Output
more_names[:2]	Slice list up to 2nd item	['Unity', 'Catherine']
more_names[2:]	Slice from 2nd item to end of list	['Thomas', 'William', 'Patrick', 'Mary Anne', 'Morris', 'Michael', 'Ellen', 'James']
more_names[::3]	Slice from 0 to end of list, stepping by 3	['Unity', 'William', 'Morris', 'James']

List methods

List Method	Explanation
<pre>list.append(another_item)</pre>	adds new item to end of list
<pre>list.extend(another_list)</pre>	adds items from another_list to list
<pre>list.remove(item)</pre>	removes first instance of item
<pre>list.sort(reverse=False)</pre>	sort the order of list
list.reverse()	reverses order of list

Practice: Slicing lists and list methods

In a group of 4 - 5 people,

- Create a list of your first names
- Add my name into your list using a string method
 - Save this new list as a new variable
- Sort the new list in reverse alphabetical order
- Slice the 2 3 person name and save into a new variable

For Loops

A basic for loop will consist of two lines:

- On the first line, you type the English word **for**, a new variable name for each item in the list, the English word **in**, the name of the list, and a colon (:)
- On the second line, you *indent* and write an instruction or "statement" to be completed for each item in the list

For Loops

names = ['Mary Gallagher', 'John Sanin(?)', 'Anthony Clark', 'Margaret Farrell']

for name in names:

print(name)

For Loops - if/else, elif

ages = [28, 19, 60, 30, 45, 52, 57]

for age in ages:

if age > 30:

print("Person is more than 30 years old")

else:

print("Person is less than 30 years old")

For Loops - if/else, elif

for age in ages:

if age > 50:

```
print("Person is more than 50 years old")
```

```
elif 50 > age > 30:
```

print("Person is more than 30 but less than 50 years old")

else:

print("Person is less than 30 years old")