

Name: Katie Salas

### Lesson 3: Working with Lists

1. Create a list of 5 of your favorite tv shows.

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]
```

2. Print the list in its original order.

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]  
print (tvshows)
```

```
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
```

3. Use the sorted() function to print the list in alphabetical order. How is sorted() different from sort()?

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]  
print (tvshows)  
print (sorted(tvshows))
```

```
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']  
['Heroes', 'The Office', 'Veep', 'Watchmen', 'Westworld']
```

4. Print out your original list.

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]  
print (tvshows)  
print (sorted(tvshows))  
print (tvshows)
```

```
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']  
['Heroes', 'The Office', 'Veep', 'Watchmen', 'Westworld']  
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
```

5. Used sorted() to print your list in reverse alphabetical order.

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]
print (tvshows)
print (sorted(tvshows))
print (tvshows)
print (sorted (tvshows, reverse=True))
```

```
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
['Heroes', 'The Office', 'Veep', 'Watchmen', 'Westworld']
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
['Westworld', 'Watchmen', 'Veep', 'The Office', 'Heroes']
```

6. Create a message indicating how many favorite TV shows you have – use the len() function.

```
tvshows = ["Westworld", "Veep", "Watchmen", "The Office", "Heroes"]
print (tvshows)
print (sorted(tvshows))
print (tvshows)
print (sorted (tvshows, reverse=True))
print ("I have " + str(len(tvshows)) + " favortie tv shows.")
```

```
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
['Heroes', 'The Office', 'Veep', 'Watchmen', 'Westworld']
['Westworld', 'Veep', 'Watchmen', 'The Office', 'Heroes']
['Westworld', 'Watchmen', 'Veep', 'The Office', 'Heroes']
I have 5 favortie tv shows.
```