Name: Vitoria Tai

Lesson 3: Working with Lists

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

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
```

2. Print the list in its original order.

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
print(tvshows)
```
```
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
```

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

Sorted() sorts the list temporary, which means it sorts when it's requested once. Sort() sorts the list in alphabetical order permanently.

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
print(tvshows)

print(sorted(tvshows))
```
```
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['Alice in Borderland', 'Chilling Adventures of Sabrina', 'Enola Holmes', 'The 100', 'The Boys']
```

4. Print out your original list.

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
print(tvshows)

print(sorted(tvshows))

print(tvshows)
```

```
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['Alice in Borderland', 'Chilling Adventures of Sabrina', 'Enola Holmes', 'The 100', 'The Boys']
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
```

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

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
print(tvshows)

print(sorted(tvshows))

print(tvshows)

tvshows.sort(reverse = True)
print(tvshows)
```

```
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['Alice in Borderland', 'Chilling Adventures of Sabrina', 'Enola Holmes', 'The 100', 'The Boys']
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['The Boys', 'The 100', 'Enola Holmes', 'Chilling Adventures of Sabrina', 'Alice in Borderland']
```

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

```
#U2L3 Working with Lists

tvshows = ['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
print(tvshows)

print(sorted(tvshows))

print(tvshows)

tvshows.sort(reverse = True)
print(tvshows)

print("I have " + str(len(tvshows)) + " favorite tv shows!")
```

```
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['Alice in Borderland', 'Chilling Adventures of Sabrina', 'Enola Holmes', 'The 100', 'The Boys']
['Chilling Adventures of Sabrina', 'Alice in Borderland', 'The 100', 'The Boys', 'Enola Holmes']
['The Boys', 'The 100', 'Enola Holmes', 'Chilling Adventures of Sabrina', 'Alice in Borderland']
I have 5 favorite tv shows!
```