Homework 4 Fish

Task 1: Conceptual Questions

Question 1

- The purpose of `lapply()` is to apply a function to a list and have the output of that function be in a list. The equivalent purrr function is `map2()`. The 2 signifies the output being in a list.

Guestion 2

- To do this code and to specify `method = "kendall"`, we would need to run the following code" `lapply(my_list, cor, method = "kendall")`. This is due to the "…" in the `lapply` function.

Question 3

- The 2 advantages to using purrr functions instead of BaseR apply family are

3. What are two advantages of using purrr functions instead of the BaseR apply family?

Question 4

- A side effect function is a function that does somethign with the data but not to the data. For example, `plot()` makes a plot of the data that is input into the function, but nothing is actually **done** to the data as a result.

Question 5

- You can name a variable `sd` in a function and not cause issues with the `sd` function due to that variable being a local variable. This means that this variable is not actually assigned a value that remains there until changed; it is a variable that essentially acts as a storage holder of a value until the function is done running. That implies that the `sd` function will not be overwritten in this case.

Task 2: Writing R Functions

Question 1

Question 2

Question 3

Question 4

Question 5

Question 6

Task 3: Querying an API and a Tidy-Style Function

Question 1

Question 2

Question 3