Exercise 6: Scaling fish data for clustering

You are given an array samples giving measurements of fish. Each row represents asingle fish. The measurements, such as weight in grams, length in centimeters, and the percentage ratio of height to length, have very different scales. In order to cluster this data effectively, you'll need to standardize these features first. In this exercise, you'll build a pipeline to standardize and cluster the data.

This great dataset was derived from the one here, where you can see a description of each measurement.

From the course *Transition to Data Science*. Buy the entire course for just \$10 for many more exercises and helpful video lectures.

Step 1: Load the dataset (this bit is written for you).

Step 2: Call df.head() to inspect the dataset:

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Step 3: Extract all the measurements as a 2D NumPy array, assigning to samples (hint: use the .values attribute of df)

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Step 4: Perform the necessary imports:

- make_pipeline from sklearn.pipeline.
- StandardScaler from sklearn.preprocessing.
- KMeans from sklearn.cluster.

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Step 5: Create an instance of StandardScaler called scaler.

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Step 6: Create an instance of KMeans with 4 clusters called kmeans.

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Step 7: Create a pipeline called pipeline that chains scaler and kmeans. To do this, you just need to pass them in as arguments to make_pipeline().

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Great job! Now you're all set to transform the fish measurements and perform the clustering. Let's get to it in the next exercise!

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