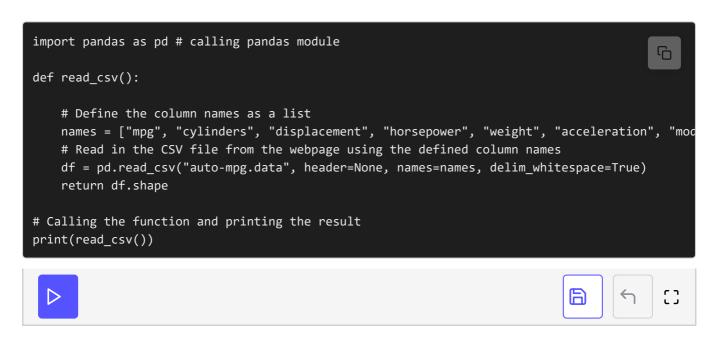
Solution Review: Reading Auto MPG Dataset

This lesson provides the solution to the previous challenge.

we'll cover the following ^
• Reading the Dataset

Reading the Dataset



According to the problem statement, we need to get the **shape** of **Auto MPG Dataset** as an output. In the code above, at **line 1**, we imported the pandas module for reading the dataset. Next, we implemented the function read_csv().

Look at its header at **line 3**. At **line 6**, we set the name of the *columns* in a list called names. We get the name of the columns from the documentation. Notice that names hold **9** string values:

- mpg
- cylinders
- displacement

- horsepower
- weight
- acceleration
- model_year
- origin
- car name

Notice that we replace whitespace with _ in model year and car name.

Line 8 is the most important line. We are using a built-in function read_csv()
from pandas. As you are familiar, it takes some arguments as follows:

- path: The path to the dataset
- header: In case the columns are provided explicitly, it's set to None.
- names: List of columns' names to be used
- delim_whitespace: Specifies whether or not whitespace should be used as a sep

So for path, we give the name of the file: auto-mpg.data. As we know the columns' names and provided them explicitly to the function as names=names, we set header as None. It was mentioned that there are whitespaces, and we have to use them as sep, so delim_whitespace is set to true. This built-in function returns a dataframe df as a result. At line 9, we are returning shape, a property of the dataframe df.

Now, look at **line 12**, where we are calling the function <code>read_csv()</code>. It returns a tuple in the form of <code>(rows, columns)</code>, which is printed at the end. For this dataset, the function will return <code>(398, 9)</code> as there are **398** rows and **9** columns.

That's it about the basics of reading the dataset of different formats using Pandas. The next chapter explains how to describe any dataset in statistical terms.