Mean and Median Calculation

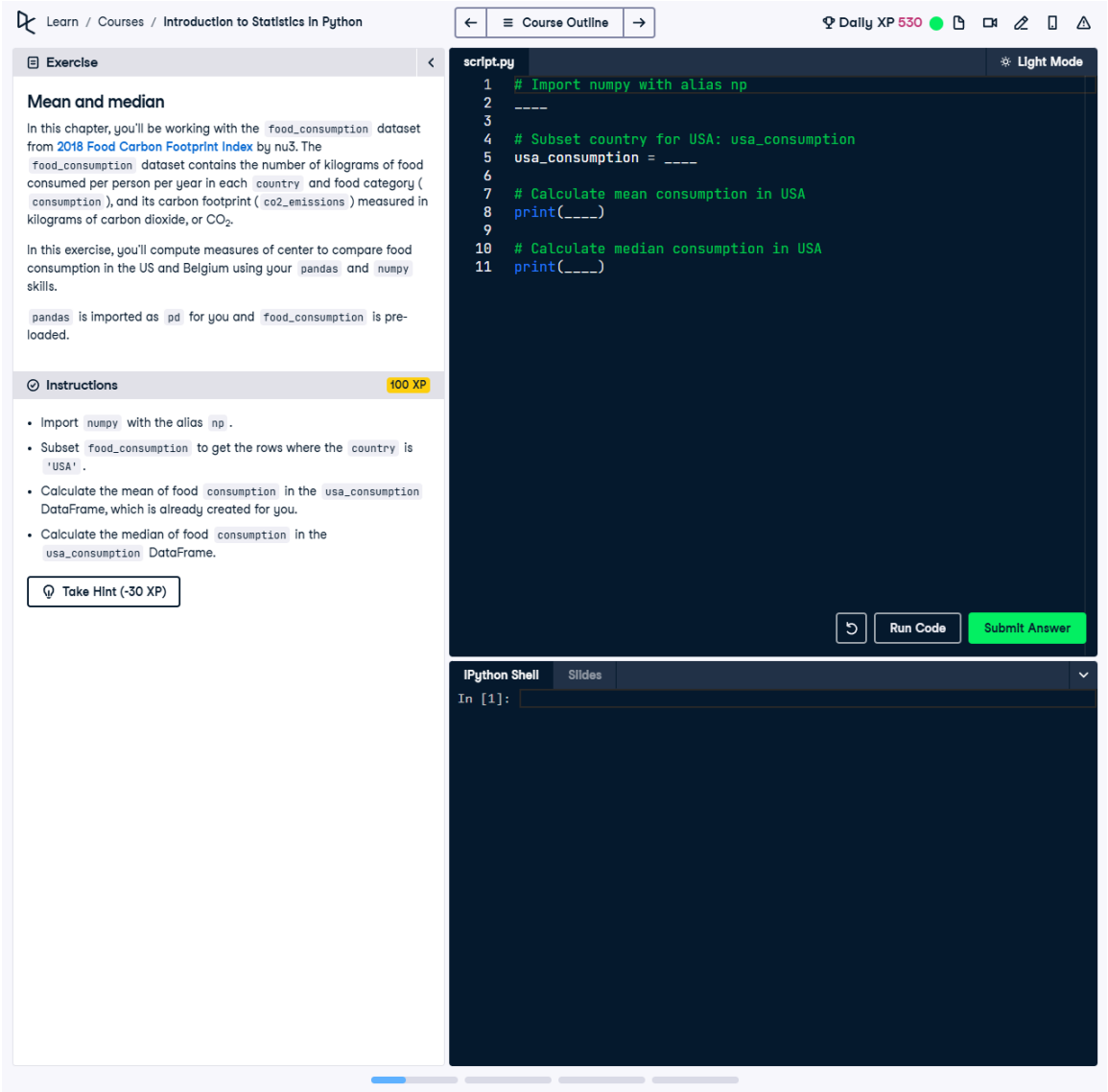

Figure 1: Screenshot showing the task to calculate mean and median of food consumption.

Question

In this chapter, you're working with the food_consumption dataset from the 2018 Food Carbon Footprint Index.
This dataset contains the number of kilograms of food consumed per person per year in each country and food category (food_consumption), and its carbon footprint (co2_emissions) measured in kilograms of carbon dioxide.

Instructions:
1. Import numpy with the alias np.
2. Subset food_consumption to get the rows where the country is 'USA'.
3. Calculate the mean of food consumption in the usa_consumption DataFrame.
4. Calculate the median of food consumption in the usa_consumption DataFrame.

Corrected Code Solution

```
# Import numpy with alias np
import numpy as np

# Subset country for USA: usa_consumption
usa_consumption = food_consumption[food_consumption['country'] ==
'USA']

# Calculate mean consumption in USA
print(np.mean(usa_consumption['consumption']))

# Calculate median consumption in USA
print(np.median(usa_consumption['consumption']))
```

Answer Explanation

1. **Import numpy:** The numpy library is imported with the alias np to utilize its mean() and median() functions.
2. **Subset the data for USA:** The usa_consumption DataFrame is created by filtering rows from food_consumption where the 'country' column equals 'USA'.
3. **Calculate the mean:** The np.mean() function computes the average consumption from the 'consumption' column in the usa_consumption DataFrame.
4. **Calculate the median:** The np.median() function calculates the middle value of the 'consumption' column, providing a measure of central tendency.