

The screenshot shows a web-based learning interface. On the left, there's a sidebar with the title 'Exercise' and a back arrow. The main content area is titled 'Making a scatter plot with lists'. It contains two paragraphs of text explaining the dataset and the lists provided. Below the text, there's a section for 'Instructions' showing progress (1/4) and a list of tasks. A 'Take Hint (-7 XP)' button is also present. On the right, there's a code editor window titled 'script.py' with a 'Light Mode' toggle. It contains three lines of code: a comment and two blank lines. Below the code editor are buttons for 'Run Code' and 'Submit Answer'. At the bottom, there's an 'IPython Shell' window with a 'Slides' tab and a prompt 'In [1]:'.

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Exercise

Making a scatter plot with lists

In this exercise, we'll use a dataset that contains information about 227 countries. This dataset has lots of interesting information on each country, such as the country's birth rates, death rates, and its gross domestic product (GDP). GDP is the value of all the goods and services produced in a year, expressed as dollars per person.

We've created three lists of data from this dataset to get you started. `gdp` is a list that contains the value of GDP per country, expressed as dollars per person. `phones` is a list of the number of mobile phones per 1,000 people in that country. Finally, `percent_literate` is a list that contains the percent of each country's population that can read and write.

Instructions
1/4 25 XP 1 2 3 4

- Import Matplotlib and Seaborn using the standard naming convention.

Take Hint (-7 XP)

script.py Light Mode

```
1 # Import Matplotlib and Seaborn
2
3
```

Run Code Submit Answer

IPython Shell Slides

In [1]:

Question: Making a scatter plot with lists

Correct Answer and Explanation:

Code Implementation:

```
# Import Matplotlib and Seaborn
import matplotlib.pyplot as plt
import seaborn as sns
```

Explanation:

- ``import matplotlib.pyplot as plt`` :
 - Imports the ``matplotlib.pyplot`` module with the alias ``plt``, which is a common convention for creating visualizations in Python.
- ``import seaborn as sns`` :
 - Imports the Seaborn library with the alias ``sns``. Seaborn is built on top

of Matplotlib and is used for creating more advanced and aesthetically pleasing visualizations.