Calculating Probabilities - Step 1/3

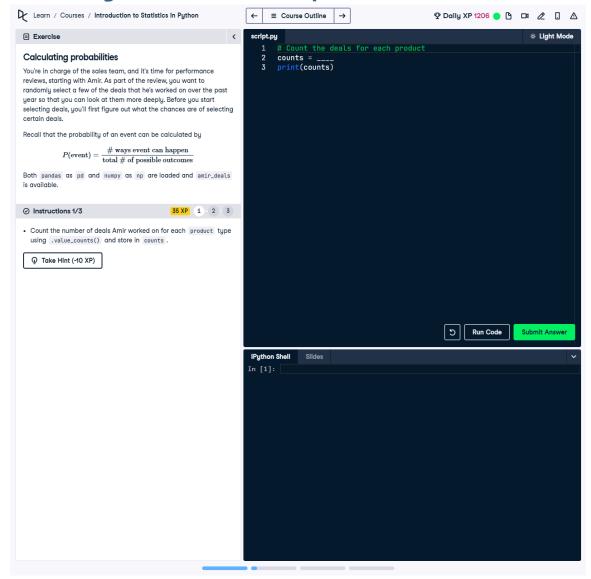


Figure: Screenshot showing the exercise for calculating probabilities by counting the number of deals Amir worked on for each product type.

Question

You're in charge of the sales team, and it's time for performance reviews, starting with Amir. As part of the review, you want to randomly select a few of the deals that he's worked on over the past year so that you can look at them more deeply. Before you start selecting deals, you'll first figure out what the chances are of selecting certain deals.

Instructions:

- 1. Count the number of deals Amir worked on for each product type using `.value counts()` and store in `counts`.
- 2. Print the resulting counts to identify the distribution of deals across product types.

Corrected Code Solution

import pandas as pd

Count the deals for each product
counts = amir_deals['product'].value_counts()
print(counts)

Answer Explanation

- 1. **Using `.value_counts()`:** This method counts the occurrences of each unique value in the `product` column of the `amir_deals` DataFrame. It provides a quick way to summarize the number of deals Amir worked on for each product type.
- 2. **Purpose:** Knowing the distribution of deals is essential for calculating probabilities of selecting deals of specific product types during a random selection process.
- 3. **Output:** The counts are printed, showing the frequency of each product type in Amir's dataset. This forms the basis for subsequent probability calculations.