Sampling Deals - Step 1/3

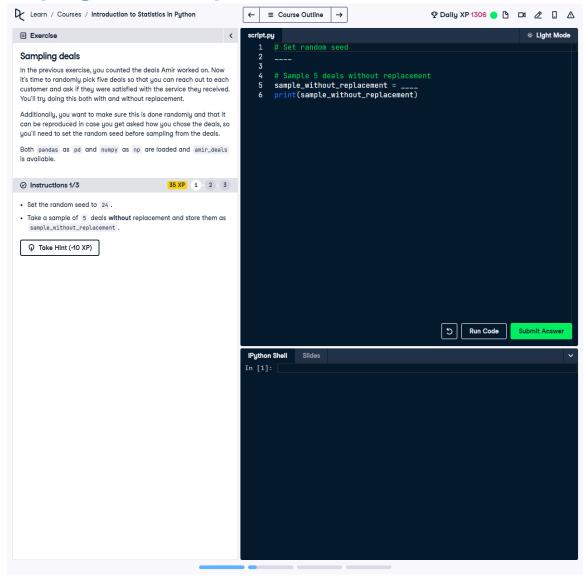


Figure: Screenshot showing the setup for sampling 5 deals without replacement using a random seed.

Question

In the previous exercises, you counted the deals Amir worked on. Now it's time to randomly pick five deals so that you can reach out to each customer and ask if they were satisfied with the service they received. You'll try doing this both with and without replacement.

^{**}Instructions:**

- 1. Set the random seed to `24` to ensure reproducibility.
- 2. Take a sample of 5 deals without replacement and store them as `sample without replacement`.
- 3. Print the sampled deals.

Corrected Code Solution

import pandas as pd import numpy as np

Set random seed np.random.seed(24)

Sample 5 deals without replacement
sample_without_replacement = amir_deals.sample(n=5, replace=False)
print(sample without replacement)

Answer Explanation

- 1. **Setting Random Seed:** The random seed is set to `24` to ensure that the sampling process is reproducible. This means that anyone running the code with the same seed will get the same sample.
- 2. **Sampling Without Replacement:** The `sample()` method is used with the parameter `replace=False` to ensure that once a deal is selected, it cannot be selected again. This ensures all selected deals are unique.
- 3. **Purpose:** Sampling without replacement is useful when you want to avoid duplicates in your sample, such as when selecting customers to contact for feedback.
- 4. **Output:** The sampled deals are printed, showing the details of 5 unique deals selected from Amir's dataset.