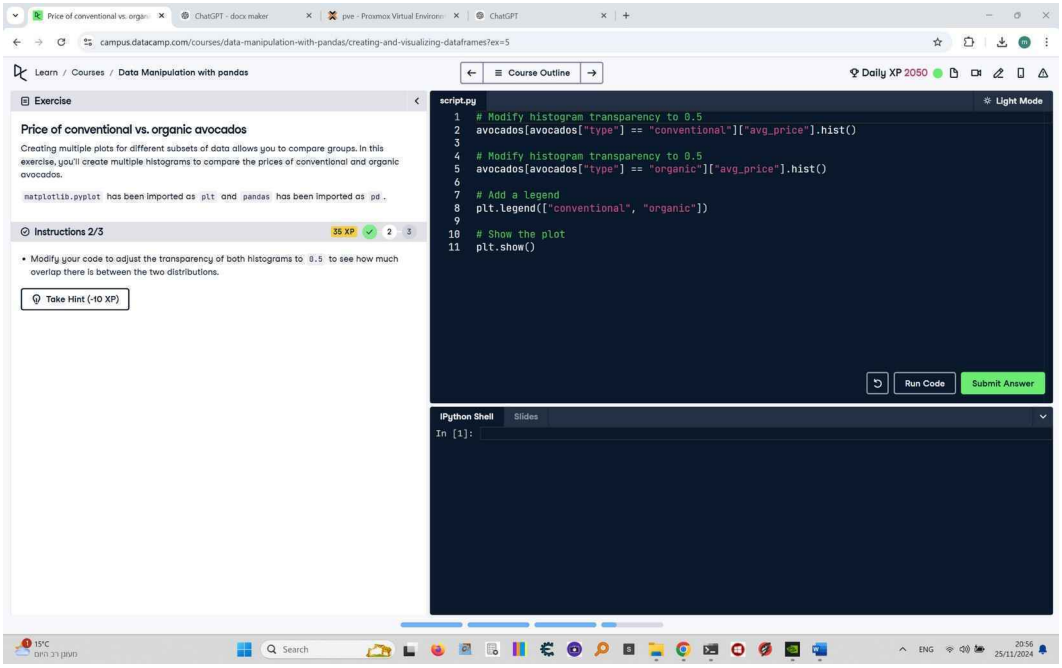
Price of Conventional vs. Organic Avocados (Corrected)

Continuing with creating multiple plots for different subsets of data to compare groups, the task now involves:

Instructions:
1. Modify your code to adjust the transparency of both histograms to 0.5 to see how much overlap exists between the two distributions.
2. Show the updated plot.

Original Uploaded Image:



Corrected Python Code Implementation:

```
# Modify histogram transparency to 0.5
avocados[avocados["type"] == "conventional"]["avg_price"].hist(alpha=0.5)

# Modify histogram transparency to 0.5
avocados[avocados["type"] == "organic"]["avg_price"].hist(alpha=0.5)

# Add a legend
plt.legend(["conventional", "organic"])
```

```
# Show the plot
plt.show()
```

Explanation of Corrected Code:

1. **Filter and plot histograms**: Instead of creating subsets, filter and plot the histograms directly within the same line using `avocados[condition]["avg_price"].hist()` for both `conventional` and `organic` types.
2. **Set transparency**: Use `alpha=0.5` in both histogram calls to make overlaps between the distributions visible.
3. **Add a legend**: Use `plt.legend` to label the two distributions as `conventional` and `organic`.
4. **Show the plot**: Display the plot with `plt.show()`.