**Instructions**

* **Use Google and the internet freely**
* **Ask us as many questions as you want**
* **These functions might be useful: read\_csv, shape, subset, plot, dcast, mean, max, substr**

**Data Import**

1. Install Python. Install library “pandas”
2. Import SalesData.csv as a data frame in Python

**Basic data checks**

1. Find total number of rows and columns in the data
2. Find total quantity and total revenue for store 233
3. Find total quantity and total revenue for store 108 only when SaleFlag is Y
4. Find the segment which has the highest priced item
5. Find the average price per item
6. Find the hourly quantity and revenue
7. Find the segment with the lowest revenue

**Data visualization**

1. Plot the revenue by hour
2. Plot total quantity at each unique price in a scatter plot
3. Plot a histogram of quantity
4. *Can you think of 3 examples of visualizing this data to give valuable insights to the business?*

**Modeling**

1. *Can you outline an approach to predict demand (quantity sold for each item) using this data?*
2. *Can you outline an approach to estimate price elasticity for each item?*