Your task is to calculate Elasticities of Purchase Probability for the remaining two Segments:

* ‘Standard’ – Segment 0
* ‘Well-off’ – Segment 3

Start with Segment 0, then proceed with Segment 3.

You can try that completely on your own or follow the steps below:

For each Segment:

1. Create a data frame and select only customers the chosen Segment.
2. Create Y and X for the Logistic Model.
3. Create model and fit with X and Y.
4. Predict the Probabilities with the price\_range.
5. Extract Purchase Probabilities for class 1.
6. Calculate Elasticity of Purchase Probability for the Segment, using the formula in the lecture.
7. Update the master data frame. Add a new column with the Price Elasticities for the Segment.
8. Plot Elasticities on graph.

Some additional hints:

* Updating the master data frame. In order to have the Segment columns in the right order: 0, 1, 2, 3, consider using:
  + df.**insert**(loc, column, value) for the 0th Segment.
* Plotting the graph. To have the same color scheme as in the descriptive analysis, use:
  + Standard - ‘b’, Well-off - ‘orange’.

Good luck!