Import the data from problem set one into Stata to answer the following questions. Your typed answers are due at the beginning of the next class. Answers must be presented in a professional manner for full credit.

1. **Modeling Case Volume**
   i. Show graphically using Stata total cases sold by period for the duration of the data set.
   ii. Construct a model for total cases sold accounting for the long term trend in sales and seasonal variation. Estimate the model in Stata and show your output.
   iii. Show actual unit sales versus the predicted unit sales for the duration of the data set. Describe your results. How well does the model fit the data?

2. **Constructing a Bench Mark**
   i. Re-estimate your model for all periods except the last 13 four-week ending periods of the data. Show your regression results.
   ii. Using the model developed above to construct a benchmark for total cases sold accounting for the last 13 four-week ending periods. Provide a table of actual and expected (predicted) values.
   iii. Use a bar chart to show sales versus the benchmark graphically for this period.
   iv. Use a bar chart to show the difference between sales and the benchmark graphically for this period.
   v. Use a bar chart to show the percentage difference between sales and the benchmark graphically for this period.