```
------------------------------------------------------------------------------
      name:  <unnamed>
       log:  C:\Users\Administrator\Dropbox\Gomez\AEM 6700\BlueberryDemand.log
  log type:  text
 opened on:  27 Aug 2016, 14:54:11

. * Import data from excel into Stata
.   import excel BBDATA.xlsx, sheet("Sheet1") firstrow

.
.
. ** Data Cleaning
.   * Rename variables
.     rename YEAR year

.     rename CPIFORALLITEMS20141 cpi

.     rename INFLATIONADJUSTEDGDP gdp

.     rename REALBLUEBERRYPRICECENTSLB bbp

.     rename USPOPULATIONINMILLIONS pop

.     rename GENERICBLUEBERRYPROMOTIONEXPE prom

.     rename PERCAPITABBCONSUMPTIONOUNCES cons

.     rename NOMINALRASPBERRYPRICECENTSLB rsp_n

.     rename NOMINALSTRAWBERRYPRICECENTSL stp_n

.   * Generate real(inflation adjusted) prices
.     *gen bbp = bbp_n * cpi
.     *label variable bbp "REAL BLUEBERRY PRICE CENTS/LB"
.     gen rsp = rsp_n / cpi

.     label variable rsp "REAL RASPBERRY PRICE CENTS/LB"

.         gen stp = stp_n / cpi

.     label variable stp "REAL STRAWBERRY PRICE CENTS/LB"

.   * Generate per capita income
.     gen inc = gdp/pop

.     lab variable inc "PER CAPITA INCOME, REAL, 1,000$"

.   * Convert year from string variable to numerical variable
.     destring year, replace
year has all characters numeric; replaced as int

.   * Declare data to be time-series data to use lag operator
.     tsset year
        time variable:  year, 1970 to 2014
                delta:  1 unit
```

```
.   * Generate log value of dependent and independent variabls to calculate elas
> ticity
.     gen lnbbp = log(bbp)

.     gen lnprom = log(prom)

.     gen lncons = log(cons)

.     gen lnconsl = log(L.cons)
(1 missing value generated)

.     gen lnrsp = log(rsp)

.     gen lnstp = log(stp)

.     gen lninc = log(inc)

.
. ** Run regression on log vars
.         reg lncons lnconsl lnbbp lnrsp lnstp lninc lnprom

      Source |       SS           df       MS      Number of obs   =        44
-------------+----------------------------------   F(6, 37)        =    250.93
       Model |  15.5084671         6  2.58474452   Prob > F        =    0.0000
    Residual |  .381127967        37  .010300756   R-squared       =    0.9760
-------------+----------------------------------   Adj R-squared   =    0.9721
       Total |  15.8895951        43  .369525467   Root MSE        =    .10149

------------------------------------------------------------------------------
      lncons |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     lnconsl |   .5841369   .1061711     5.50   0.000     .3690137      .79926
       lnbbp |  -.1771892   .0940561    -1.88   0.067    -.3677649    .0133865
       lnrsp |   .0214296   .0493605     0.43   0.667    -.0785843    .1214435
       lnstp |   .5036339   .1866456     2.70   0.010      .125454    .8818138
       lninc |   .7956801   .2750256     2.89   0.006     .2384253    1.352935
      lnprom |   .1068492   .0452952     2.36   0.024     .0150724     .198626
       _cons |  -3.887792   1.459277    -2.66   0.011    -6.844567   -.9310157
------------------------------------------------------------------------------

.         estat durbinalt

Durbin's alternative test for autocorrelation
------------------------------------------------------------------------------
    lags(p)  |          chi2               df                 Prob > chi2
-------------+----------------------------------------------------------------
       1     |          6.901               1                   0.0086
------------------------------------------------------------------------------
                        H0: no serial correlation

. log close
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