```
--------------------------------------------------------------------------------
      name:  <unnamed>
       log:  /Users/yushujiang/Desktop/ECO220/Labs/Problemset6/analysis/jiang_ps6.
> log
  log type:  text
 opened on:   1 Dec 2018, 21:32:29

. scatter bac beers

. regress bac beers

      Source |       SS           df       MS      Number of obs   =        16
-------------+------------------------------      F(1, 14)        =     55.94
       Model |  .023375345         1  .023375345  Prob > F        =    0.0000
    Residual |  .005849655        14  .000417832  R-squared       =    0.7998
-------------+------------------------------      Adj R-squared   =    0.7855
       Total |     .029225        15  .001948333  Root MSE        =    .02044

--------------------------------------------------------------------------------
         bac |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+------------------------------------------------------------------
       beers |   .0179638   .0024017     7.48   0.000     .0128126    .0231149
       _cons |  -.0127006   .0126375    -1.00   0.332    -.0398053    .0144041
--------------------------------------------------------------------------------

. twoway(scatter bac beers) (lfit bac beers)

. gen limit = (bac > 0.08)

. sum limit

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       limit |         16       .4375    .5123475          0          1

. means limit, level(80)

    Variable |   Type          Obs        Mean     [80% Conf. Interval]
-------------+--------------------------------------------------------------
       limit | Arithmetic       16       .4375      .265786     .609214
             | Geometric         7          1            1           1
             | Harmonic          7          1            1           1
--------------------------------------------------------------------------------

. mean limit, level(80)

Mean estimation                    Number of obs   =        16

--------------------------------------------------------------
             |       Mean   Std. Err.     [80% Conf. Interval]
-------------+------------------------------------------------
       limit |      .4375   .1280869        .265786     .609214
--------------------------------------------------------------


. log close
      name:  <unnamed>
       log:  /Users/yushujiang/Desktop/ECO220/Labs/Problemset6/analysis/jiang_ps6.
> log
  log type:  text
 closed on:   2 Dec 2018, 15:05:58
--------------------------------------------------------------------------------
```