```
                                                  ___  ____  ____  ____  ____(R)
                                                 /__    /   ____/   /   ____/
                                                ___/   /   /___/   /   /___/
                                                  Statistics/Data Analysis
```



```
Notes:

1 . *(2 variables, 46 observations pasted into data editor)

2 . reg savingy gdpx

      Source |       SS       df       MS              Number of obs =      46
-------------+------------------------------           F(  1,    44) = 2309.87
       Model |  1.1063e+09     1  1.1063e+09           Prob > F      =  0.0000
    Residual |  21074000.2    44   478954.55           R-squared     =  0.9813
-------------+------------------------------           Adj R-squared =  0.9809
       Total |  1.1274e+09    45  25053295.7           Root MSE      =  692.07

------------------------------------------------------------------------------
     savingy |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        gdpx |   .3857008   .0080252    48.06   0.000      .369527    .4018745
       _cons |  -1698.108   171.1229    -9.92   0.000    -2042.983   -1353.232
------------------------------------------------------------------------------

3 . generate lnX=ln( gdpx)

4 . generate lnY=ln( savingy )

5 . reg lnY lnX

      Source |       SS       df       MS              Number of obs =      46
-------------+------------------------------           F(  1,    44) = 4905.89
       Model |  42.7994079     1  42.7994079           Prob > F      =  0.0000
    Residual |  .383859663    44  .008724083           R-squared     =  0.9911
-------------+------------------------------           Adj R-squared =  0.9909
       Total |  43.1832676    45  .959628169           Root MSE      =   .0934

------------------------------------------------------------------------------
         lnY |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         lnX |   1.393106   .0198896    70.04   0.000     1.353022    1.433191
       _cons |  -5.206591   .1894609   -27.48   0.000    -5.588425   -4.824758
------------------------------------------------------------------------------
```

```
 6 . generate lnX1=ln(5*gdpx)

 7 . generate lnY1=ln( 6*savingy )

 8 . reg lnY1 lnX1

      Source |       SS           df       MS      Number of obs   =        46
-------------+----------------------------------   F(1, 44)        =   4905.89
       Model |  42.7994118         1  42.7994118   Prob > F        =    0.0000
    Residual |  .383859787        44  .008724086   R-squared       =    0.9911
-------------+----------------------------------   Adj R-squared   =    0.9909
       Total |  43.1832716        45  .959628258   Root MSE        =     .0934

------------------------------------------------------------------------------
        lnY1 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        lnX1 |   1.393106   .0198896    70.04   0.000     1.353022    1.433191
       _cons |   -5.65695   .2213995   -25.55   0.000    -6.103152   -5.210749
------------------------------------------------------------------------------

 9 . reg savingy gdpx, noconstant

      Source |       SS           df       MS      Number of obs   =        46
-------------+----------------------------------   F(1, 45)        =   1428.05
       Model |  2.1655e+09         1  2.1655e+09   Prob > F        =    0.0000
    Residual |  68237742.7        45  1516394.28   R-squared       =    0.9695
-------------+----------------------------------   Adj R-squared   =    0.9688
       Total |  2.2337e+09        46  48559219.5   Root MSE        =    1231.4

------------------------------------------------------------------------------
     savingy |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        gdpx |   .3217711   .0085148    37.79   0.000     .3046214    .3389208
------------------------------------------------------------------------------

10 . reg savingy gdpx

      Source |       SS           df       MS      Number of obs   =        46
-------------+----------------------------------   F(1, 44)        =   2309.87
       Model |  1.1063e+09         1  1.1063e+09   Prob > F        =    0.0000
    Residual |  21074000.2        44   478954.55   R-squared       =    0.9813
-------------+----------------------------------   Adj R-squared   =    0.9809
       Total |  1.1274e+09        45  25053295.7   Root MSE        =    692.07

------------------------------------------------------------------------------
     savingy |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        gdpx |   .3857008   .0080252    48.06   0.000      .369527    .4018745
       _cons |  -1698.108   171.1229    -9.92   0.000    -2042.983   -1353.232
------------------------------------------------------------------------------

11 .
```