```
clear all;
close all;
format shortG;
[Data,txt]=xlsread('Data_OilPrice_Organiz (2).xlsx');
Oil t =Data(:,2);
Oil tlag=Data(:,3);
Growth_GER =Data(:,4);
Growth UAE=Data(3:end-1,5);
xcons = ones(length(Oil_t),1);
time_trend = [1:1:50]';
vnames=strvcat('Oil(t)','constant','trend','Oil(t-1)'); % input variable
names
results = OLS_demo(Oil_t,[xcons time_trend Oil_tlag]);
prt_reg(results, vnames)
Dependent Variable =
                      Oil(t)
R-squared = 0.6598 sigma^2 = 361.9826
       = 19.0258
SER
Durbin-Watson = 1.7467
Nobs, Nvars =
               50.
                      3
Variable Coefficient
                     t-statistic t-probability
constant 16.508179
                      2.160779
                                  0.035841
trend
          -0.012087
                      -0.063545
                                   0.949602
Oil(t-1) 0.795779
                       9.371516
                                   0.000000
shock = results.resid;
vnames1=strvcat('Oil_shock(t)','constant','trend','Growth_GER(t)'); % input
results_GER = OLS_demo(shock,[xcons time_trend Growth_GER]);
prt_reg(results_GER, vnames1)
Dependent Variable = Oil_shock(t)
R-squared = 0.1000
sigma^2
           = 325.7743
       = 18.0492
Durbin-Watson = 1.4931
Nobs, Nvars =
Variable
             Coefficient
                         t-statistic t-probability
              -7.532828
                          -1.226478
constant
                                       0.226128
               0.097874
                           0.537796
                                       0.593255
trend
               2.965842
                                        0.026834
Growth_GER(t)
                           2.285572
shock uae=shock(3:end-1);
T = length(shock_uae);
time_trend2 = [1:1:T]';
xcons = ones(T,1);
```

```
vnames2=strvcat('Oil_shock(t)', 'constant','trend', 'Growth_UAE(t)'); %
input variable names
results_UAE = OLS_demo(shock_uae,[xcons time_trend2 Growth_UAE]);
prt_reg(results_UAE,vnames2)
```