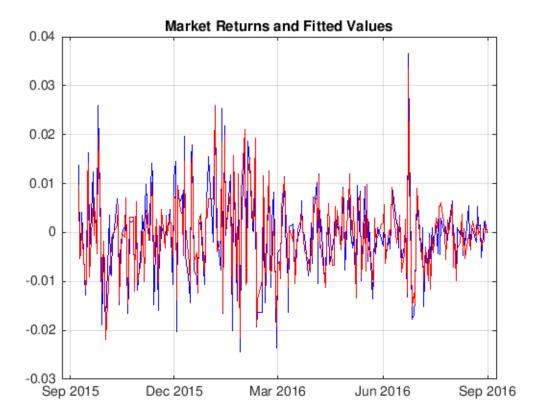
```
%Linear regression model for S&P500 using some of its movers
% Based on last 250 trading days
%Create the tables from data
SePtable = readtable('SeP.csv');
maroiltable = readtable('maroil.csv');
goldstable = readtable('golds.csv');
geneletable = readtable('genelec.csv');
appletable = readtable ('apple.csv');
%Extract stocks closing prices
SePstk = SePtable.Close(1:250);
maroilstk = maroiltable.Close(1:250);
goldsstk = goldstable.Close(1:250);
genelestk = geneletable.Close(1:250);
applestk = appletable.Close(1:250);
%Extract Days
dates = datetime(SePtable.Date);
dates= dates(2:250);
%Extract returns
SePrts = diff(log(SePstk));
maroilrts = diff(log(maroilstk));
goldsrts = diff(log(goldsstk));
genelerts = diff(log(genelestk));
applerts = diff(log(applestk));
%Store factors into a matrix
factors = [maroilrts,goldsrts,genelerts,applerts];
% Plot the market data returns
figure
plot(dates, SePrts, 'b')
hold on
grid
title('Market Returns and Fitted Values')
% Fit a linear model to the data
marketModel = fitlm(factors, SePrts);
% Plot the fitted values
plot(dates, marketModel.Fitted, 'r')
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```

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