**In preparation for the next live session, please complete the following. Be sure and submit your work to the "Unit 6: "For Live Session" Assignment" assignment on 2DS:**

**On your PowerPoint slides (create at least one slide for each number):**

1. Looking at your time series from the first day of class, you addressed its stationarity before. Does either a signal plus noise, ARIMA, or ARUMA (seasonal) model seem appropriate?  
   (Just comment on your PowerPoint slide. We will test the fits of these models later.)
2. Copy and paste the factor table for a seasonal model with s = 7.
3. Comment and provide evidence if the following models (one slide for each model) looks to be:

* ARIMA with d 0 Seasonal with s0
* Seasonal with d = 0 and s0 (Identify p and q as well)
* ARIMA (identify d as well as p and q)
* ARMA (identify p and q)

The MODELS:

a. (1*B4*) *Xt* = (1+.3*B*) (1.6*B+*.8*B*2)*a*

b. (1+.3*B*) *Xt* = (1.6*B+*.8*B*2) *a*

c. (1.1*B-*.99*B*2 *+*.013*B3 +*.2078*B4 +*.0888*B5 +*.00864*B6*)(1*B*)2(1*B12*) *Xt* = (1.6*B+*.8*B*2)*a*

1. Pick a stock and download the last years’ worth of daily stock price data.

* Plot the data.
* Take the first difference, and then estimate the structure of differenced data.
* From this information, suggest a model for the data.

Don't forget to make your last slide(s) your Key Takeaways and any questions you may have!