2nd set SAS assignments

For the current and the coming SAS exercises: Get familiar with the included SAS Help function and the SAS Online Tutorial which can be found here:

http://support.sas.com/onlinedoc/913/docMainpage.jsp.

1. Working with data

- i) Create a library named saskurs pointing to a directory of your choice.
- ii) Import the dataset stockprices.xls with PROC IMPORT into your library call it stockprices.

Hint PROC IMPORT: Use SAS help. See PROC IMPORT Statement. Define in the procedure datafile, out and the options replace and DBMS.

- iii) Use a data step and format the variable DATUM as date8.. Label the variables:
 - DAX: DAX Index
 - BAS: BASF Stock Price
 - BAY: Bayer Stock Price
 - HOE: Hoechst Stock Price
 - CBK: Commerzbank Stock Price
 - DBK: Deutsche Bank Stock Price
 - DRB: Dresdner Bank Stock Price

Hint: Use a macro for labeling the stocks to avoid a too long code.

iv) Make use of a data step to create a series of the lagged price for each stock (use function lag()) and calculate the log-return for each stock price series (use function log()). Drop the lagged prices from the dataset. Hint: Use a macro to avoid a too long code.

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- v) Choose a return series and/or a price series and plot them. (Use PROC GPLOT) **Hint**: Write a macro that is flexible regarding the plotted variable (=return or price) and the stock.
- vi) Create a data set from stockprices that contains the first or the last observation of each year. Hint: dat_year=year(datum); Sort the data by datum. Then use a data step with a by statement, as by dat_year datum; and first.dat_year or last.dat_year.
- vii) Export the data set from vi) into a .txt file with PROC EXPORT. Hint PROC EXPORT: Use SAS help. See PROC EXPORT Statement. Define in the procedure DATA, OUTFILE and the options REPLACE and DBMS.