**Final Exam:**

For the following problems, please provide your SAS code, SAS log, and SAS output as specified. Compress all the files into a single zipped file and upload it to CANVAS.

**Problem #1: (15 points)**

* Utilize the SAS import utility to generate the code for importing the "GDPC1.csv" file into the SAS environment.
* Import the data into SAS using the generated code (include the code in your program).
* Clean the SAS dataset by removing rows before Jan 1, 2016, and after Dec 31, 2020. Create a new dataset.

**Problem #2 (50 points)**

* Merge the "Inflation" and “Plywood (WP083)” SAS datasets, ensuring there are no duplicated dates in each dataset.
* Merge the combined dataset by date and create a new dataset with common dates only. Rename the variable "CORESTICKM159SFRBATL" to "inflation\_rate".
* Establish a regression line between “Plywood Price (WPU083)” and the inflation rate.
* Output the results in an "RTF" file format.

**Problem #3 (35 points)**

* Use the double exponential smoothing model to forecast the unemployment rate for the next 12 months, using the "UNRATE\_2021" SAS dataset.
* Plot the "actual", predicted, and confidence intervals.
* Output the results in an "RTF" file format.

Data dependency: UNRATE\_2021 , WP083 , Inflation SAS datasets and GDPC1.csv