

# Review Lab #1

## Directions:

- Submit one program file, one output file and one log file for the whole Lab.
- Use comment statements to separate your answers.
- Make sure that your log file and output file contain only one run.
- Clear the screen after each run and present only the last one in 'J:\Classes\Student46'.
- Name your file according to your last name, example: lastname\_prog.sas
- Use the SAS Help and Documentation if needed (see lecture 1).

The data set **PAMSAS.xlsx** (in 'J:\CLASSES\STAT46') is an excel spreadsheet containing data related to peace accords that were signed between parties in conflict, around the world.

## Part 1: Accessing an Excel Worksheet:

1. Import the Excel data set 'PAMSAS.xlsx'.
2. Write a libname statement to create libref named **Lab** that references the Excel spreadsheet **PAMSAS.xlsx**.
3. Import the Excel spreadsheet to SAS, name it: **PAM**
4. Write a PROC CONTENTS step to provide a description of the data.
5. Write a PROC PRINT step that create a report showing the names of the countries.

## Part 2: Subsetting Observations Based on Three Conditions

1. Create a temporary data set called '**CeaseFire**' that meet the following conditions:
  - a. The country signed a cease fire: The variable **cease\_date** doesn't present a missing data
  - b. The total implementation points (**total\_implem\_points**) is higher than **50**.
  - c. The year count (**year\_count**) is smaller or equal to **3**.

(Hint: use WHERE and IF statements)

2. Create a report where the data of '**CeaseFire**' are displayed according to the year count (**year\_count**) and with a descending order of total implementation points (**total\_implem\_points**).

#### Part 3: Calculating Some Statistics

1. Calculate the number of missing data in the variable **cease\_date**?
2. What is the country with the maximum number of provisions and the country with the minimum number of provisions?
3. What is the Median number of **year\_count** (the Median of a set of values is the middle or central value? For example, the median of {1, 200, 3} is the value 3. If the set has an even number of values, the median is the midpoint between the two middle values).
4. What is the average number of total implementation points? (Hint: mean of **total\_implem\_points**).

#### Part 4: Tabulating

Create a table showing the **year\_count** for the **countries** with no **cease\_date**.