Assignment 2

A researcher is interested in the relationship between influenza and temperature at the location (°C).  She has compiled data from several locations in the NorthEast and NorthWest of the United States and wishes to look at the data.  The data is contained in the Flu1.txt file attached.

1. Create an overall scatterplot using PROC PLOT and comment on the relationship.  (Do not pay attention to region and use temperature on the x-axis ).  (15 pts)
2. Create an overall scatterplot using PROC GPLOT and comment on the relationship.   (Do not pay attention to region and use temperature on the x-axis ).  (15 pts)
3. Create an overall scatterplot using PROC SGPLOT and comment on the relationship.   (Do not pay attention to region and use temperature on the x-axis ). (15 pts)
4. Create a grouped scatterplot using PROC SGPLOT with different symbols or color for each region.  You may want to look at [this website](https://documentation.sas.com/?docsetId=grstatproc&docsetTarget=n06fb9ichgg6akn18060gbtvw9pw.htm&docsetVersion=9.4&locale=en) for how to modify your code.  (15 pts)
5. Use PROC REG to fit an overall regression line. Report and interpret the coefficients.  (20 pts)
6. Use PROC REG to fit a regression for each region. Report and interpret the R2 value for each model.  (20 pts)