

# SAS Programming 1

**Submission Instructions:** Welcome to SAS Programming 1. Upon completion, you *should upload* your **Word Document** and **SAS codes** to Blackboard by 11:59 PM of the due date.

## Using the Linear Regression Task to Fit a Simple Linear Regression Model

In many cases we will not only be interested in the association between variables but we will want to define the relationship. This will allow us to use the model to predict future values.

You should always validate the assumptions of normality and constant variance using the Residual Plots as I showed in the lecture videos.

Using the Real Estate Sample dataset to examine the association between two variables.

1. Use the Linear Regression task to perform a simple linear regression model with Price as the response variable and bathrooms as the predictor.
2. Write the predicted regression equation.
3. Repeat the steps above to examine the regression relationship between Price and garage.
4. Discuss your results. What can you say about the two models? Provide at least one reference article in support of your findings.

Your Word document should include the results of your analysis and answers to the above questions. Images, tables, and references should be formatted using APA. Use the Journal Style when outputting your results in SAS to Word.

Have fun!