**Lab #2 Activity**

1. Create a new R Notebook called ***Lab2***
   1. This can go in the ***MyLabActivities*** project you created last semester or you can start a new project
2. Load any packages that you require to complete the following tasks
3. Read in the .csv file “***Lab2.csv***”
   1. The data contains 8 variables (x1 – x4 and y1 – y4) with 11 observations each.
4. Get descriptive statistics for all of the variables in the dataset
5. Estimate a series of 4 linear models and view the output summary
   1. X1 predicting y1, x2 predicting y2, etc…
6. Write ~3 sentences of interpretation for the output of each linear model.
7. Use a scatter plot to visualize the relation between each pair of variables (i.e. x1 & y1, x2 & y2, etc…)
   1. Add the regression line to each scatter plot. Hint: ***geom\_smooth (method = ‘lm’)***
   2. You should create at least 4 plots
8. Write a paragraph interpreting each plot you created and describing how visualizing the data changes your interpretation of the linear models from step 5.
9. Upload your R Notebook to Canvas