**MA 155 (Spring 2022)**

**Project 4: Inferential Statistics**

First Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_/xx Points

* **Instructions:** Use the attached data set in excel to complete the tasks. Once you are done with the tasks, upload your work as a single **word file** on canvas. The data set is the same as the one you used in Project 1.
* Tasks

1. (xx Points) Construct a 90% confidence interval for a mean, using the variable “AGE” using the Data Analysis Tool in excel. Report the interval in the point estimate – margin of error and interval notation forms. Interpret the interval. **Note: Round your answer to two decimal places.**

Put your results here!

1. (xx Points) Construct a 95% confidence interval for a mean, using the variable “AGE” using the Data Analysis Tool in excel. Report the interval in the point estimate – margin of error and interval notation forms. Interpret the interval. **Note: Round your answer to two decimal places.**

Put your results here!

1. (xx Points) Construct a 99% confidence interval for a mean, using the variable “AGE” using the Data Analysis Tool in excel. Report the interval in the point estimate – margin of error and interval notation forms. Interpret the interval. **Note: Round your answer to two decimal places.**

Put your results here!

1. (xx Points) Briefly discuss the effect of increasing the level of confidence on the width of the confidence interval.

Put your results here!