**Part IX: Chapter 10: Linear Regression Relationships**

**Task 1:**

* **Create a scatterplot for oral exam versus written exam scores. Insert that scatterplot here then perform a linear regression test on the data.**
* **Report the correlation coefficient, Pearson critical values, and write the equation for the linear relationship.**
* **Determine if there is a valid linear relationship.**

**Task 2:**

* **Create a scatterplot for written exam versus oral exam scores. (This is simply a reversal of x, y values from Task 1.) Insert that scatterplot here then perform a linear regression test on the data.**
* **Report the correlation coefficient, Pearson critical values, and write the equation for the linear relationship.**
* **Determine if there is a valid linear relationship.**

**Task 3: Describe the differences between the results from Task 1 and Task 2 by completing the statement below.**

**When the x, y values are reversed, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ remain the same while the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ changes.**