STA 471 REGRESSION ANALYSIS

Homework #2 (Due Thursday, September 21)

- 1. For the data given in problem **F** on page 99,
 - a) Test to determine whether there is a linear relationship between X and Y at $\alpha = 0.05$. Be sure to state the null and alternative hypotheses, test statistic and its observed value, and conclusion.
 - **b)** Calculate a 95% confidence interval for β_1 and interpret the confidence interval. What is your conclusion based on the confidence interval?

Note: Do not use any statistical computer package for this homework.