Assignment:
Testing Multiple Regression: _____________________________

Use the regression model from the previous assignment, "Point Estimates from Multiple Regression" to answer the following questions.
Attach the printout (same printout as in the previous assignment if that was correct, otherwise a corrected one) and answer the following questions in the blanks provided.
For extra credit, also attach a corresponding SPSS or SAS printout

Important: Write numbers, not words, symbols or formulas, in all blanks

1. The least squares estimate of JOBSAT is
   \[ \text{JOBSAT} = \________ + \________*EDUCATION + \________*SALARY \]
   (If this was correct in the previous assignment, it will be the same numbers here)

2. The numeric value of the F statistic for testing \[ H_0 : \beta_1 = \beta_2 = 0 \] against \[ H_1 : \beta_1 \text{ or } \beta_2 \text{ or both } \neq 0 \]
   is \________

3. We take only a 5% Type I risk in saying that \[ \beta_1 \text{ or } \beta_2 \text{ or both } \neq 0 \] if F is above what number? \________

4. Without considering degrees of freedom, what percent of the uncertainty about job satisfaction is explained by education and salary? \________\%

5. Taking degrees of freedom into consideration, what percent of the uncertainty about job satisfaction is explained by education and salary? \________\%

6. Test \[ H_0 : \beta_1 = 0 \] against \[ H_1 : \beta_1 > 0 \] at the 5% significance level
   Calculated \[ t = \________ \]  Rejection point = \________  Reject \[ H_0 \] in favor of \[ H_1 \]? Yes  No

7. Test \[ H_0 : \beta_2 = 0 \] against \[ H_1 : \beta_2 \neq 0 \] at the 5% significance level
   Calculated \[ t = \________ \]  Rejection point = \________  Reject \[ H_0 \] in favor of \[ H_1 \]? Yes  No

7. We can be 95% confident that \________ \leq \beta_1 \leq \________