1. Open the March madness data file.
2. Run a simple regression that predicts “tourneyw” (tournament wins) from “wins” (regular season wins).
3. Report the findings from this analysis (include reg eqn, state intercept and slope, state significance of model, $R^2$, $SE$, and state the change in Y for a unit change in X – state units too. Finally, what % of variance in Y is accounted for with X?):

________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________

4. Test the assumptions of simple regression, as per your slides:
   a. Are the measurement levels of the variables ok? ________________________
      __________________________________________________________

   b. Is the normality of the variables ok? ________________________________
      __________________________________________________________

   c. Is linearity ok? _________________________________________________
      __________________________________________________________

   d. Is homoscedasticity ok (fit a regression line to the plot to check it)? ______
      __________________________________________________________

5. Given all of the above, what is your conclusion regarding your initial statement of the results? Does it stand, should you add anything, should you change it in any way?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

6. Now do another analysis, using major conference membership (“majorcon”) to predict tournament wins. Write about your findings on the flip side of this paper.