HW 4

- 1. Refer to textbook, Problem 6.18 on p. 251 to obtain the info about the data and variables. Read the data from here:
 - $\underline{https://users.stat.ufl.edu/\sim rrandles/sta4210/Rclassnotes/data/textdatasets/KutnerData/Chapter%20%206%20Data%20Sets/CH06PR18.txt}$
 - a) Obtain the appropriate ANOVA table and calculate $SSR(X_4)$, $SSR(X_1|X_4)$, $SSR(X_2|X_1,X_4)$, $SSR(X_3|X_1,X_2,X_4)$.
 - b) Test whether X2 and X3 can be dropped from the model given that X1 and X4 are retained. Use $\alpha = 0.01$, state the hypotheses, critical value, p-value and conclusion.
 - c) Calculate R_{Y,X_4}^2 , R_{Y,X_1}^2 , $R_{Y,X_1|X_4}^2$, R_{X_1,X_4}^2 , $R_{Y,X_2|X_1,X_4}^2$, $R_{Y,X_3|X_1,X_2,X_4}^2$ and the regular R^2 when predicting Y with all X variables.