

## MTH 441: Lab 9

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**P 1.** Consider the Time Delivery Data (full with 40 observations combined Table 3.2 and Table 11.2 from INTRODUCTION TO LINEAR REGRESSION ANALYSIS by MONTGOMERY et.al.). Split the data in Prediction and Estimation data sets equally. Use the Estimation Data:

- (a) Based on some subset selection criteria, propose two regression models.
- (b) For each models, compare the regression coefficients for Prediction and Estimation data sets.
- (c) Compute the PRESS statistics and  $R^2$  prediction for both models using Prediction and Estimation data sets.