 Linear regression: Read the regression part of the article at this site: http://reliawiki.org/index.php/Multiple\_Linear\_Regression\_Analysis. Run the example linear regression in R. Please compute the value of F0 (211.9) separately step-by-step, either in Excel or in R, and then arrive at the same result you obtained by running summary in the regression example.

 Logistics regression: Run logistics regression on the loan example with the variable Decision as the dependent variable and the five categorical variables identified in the class (Res\_status, Occupation, Job\_status, Liab\_ref, Acc\_ref) as the independent variables. Show your prediction for input (owner, creative\_, governmen, f, given) and (rent, creative\_, governmen, f, given).

 Reading: Please read linear and logistics regression and interpret the Excel/R results of running a regression problem (see the attached pdf), statistical hypothesis testing (z and t tests) and try interpreting the p value for each independent variable.

 Rewrite the [python codes](https://www.analyticsvidhya.com/blog/2016/01/complete-tutorial-ridge-lasso-regression-python/) on Lasso & Ridge regularization in R (until section 4).