ECO395M STAT LEARNING Homework 1*

Mingwei Li, Xinyu Leng, Hongjin Long

Abstract

This document is the first homework of ECO395M STAT LEARNING. The projects **Gas Price**, **a bike share network**, **flights at ABIA** and **K-nearest neighbors** are included in this document. The whole project is available at here.

---

*Mingwei Li, Xinyu Leng and Hongjin Long are master students of economics, The University of Texas at Austin

Contents

1 Gas Price

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.
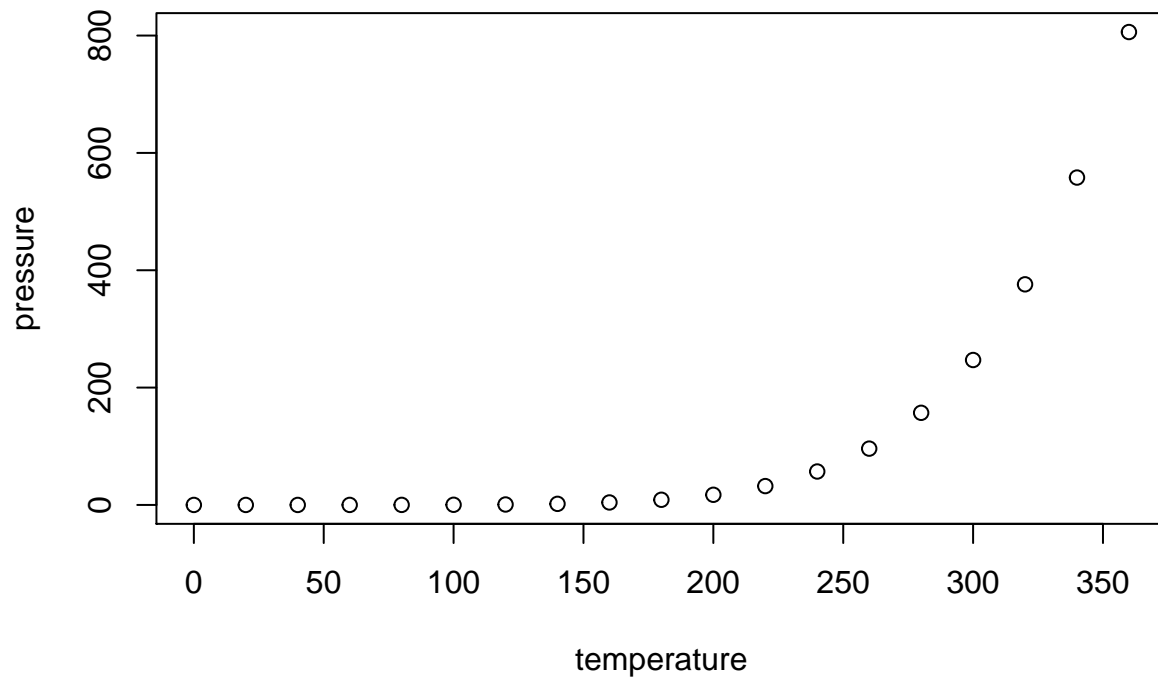
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```r
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

1.1 Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.