Problem Set 1

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R Markdown Introduction

Welcome to PHW290: R for Public Health!

We're excited that you're here and look forward to a semester with you and R. The current file you are looking at is called a "RMarkdown", which has a .Rmd extension. We will use this type of R file for the semester due to its easy readability and capacity for creating *neat* PDF, HTML, and MS Word files.

Today we will cover: 1. RMarkdown basics 2. R as a calculator 3. Variable assignment in R

RMarkdown Basics

R as a calculator

R is a powerful calculator

```
(y <- 1:4)
```

```
## [1] 1 2 3 4
```

```
mean(y)
```

```
## [1] 2.5
```

```
y <- 1:4
mean(y)
```

```
## [1] 2.5
```

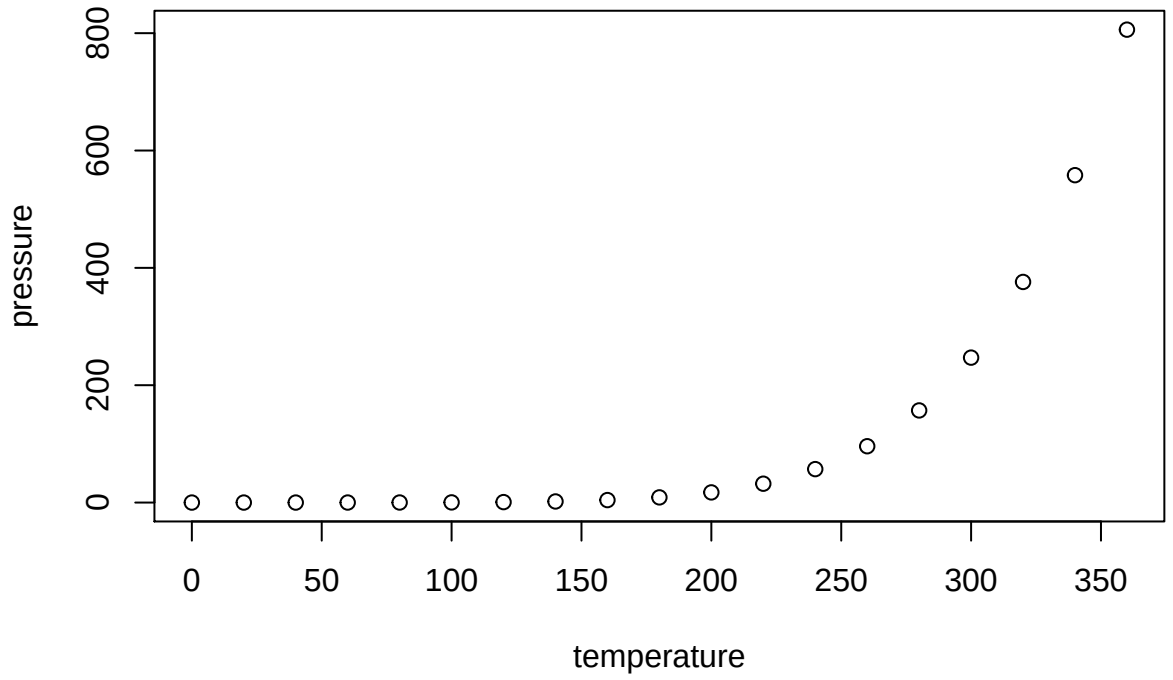
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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
```

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.