

Lab_2

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What can R Markdown do?

Compile Code

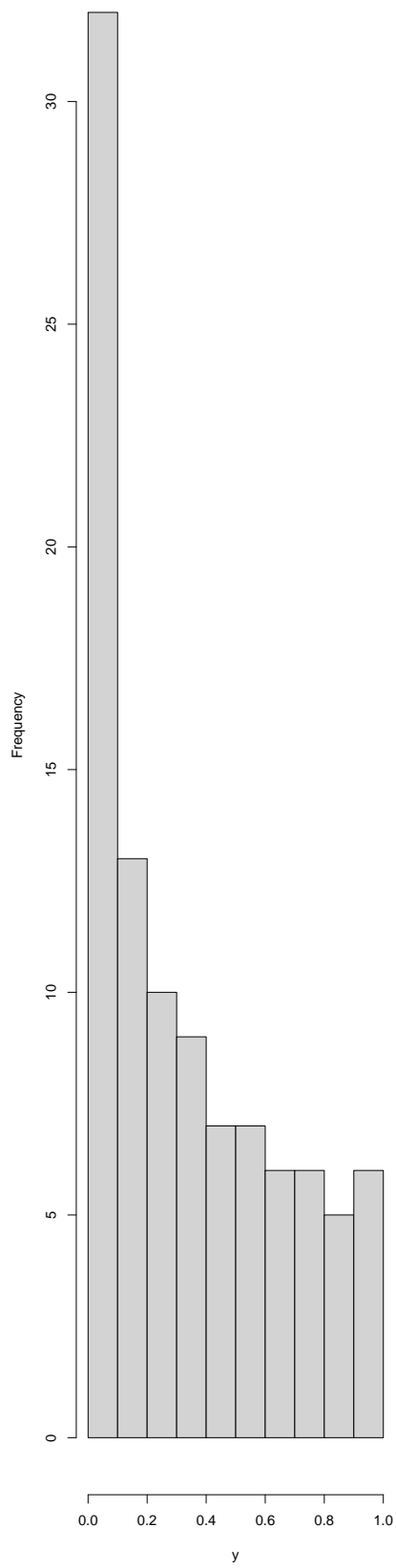
1) It can compile r code.

```
x = seq(0,1,by=.01)
y = x2
y[1:10]
```

```
## [1] 0.0000 0.0001 0.0004 0.0009 0.0016 0.0025 0.0036 0.0049 0.0064 0.0081
```

```
hist(y) ##histogram of 7
```

Histogram of y



Compile math

In line with math $y = x^2$ and display math is two dollar signs, e.g.

$$y = mx + by = x^2$$

Equation arrays

$$\begin{aligned}(a + b)^2 &= (a + b)(a + b) \\ &= a^2 + ab + ab + b^2 \\ &= a^2 + 2ab + b^2\end{aligned}\tag{1}$$

introduction

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R Markdown

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>.

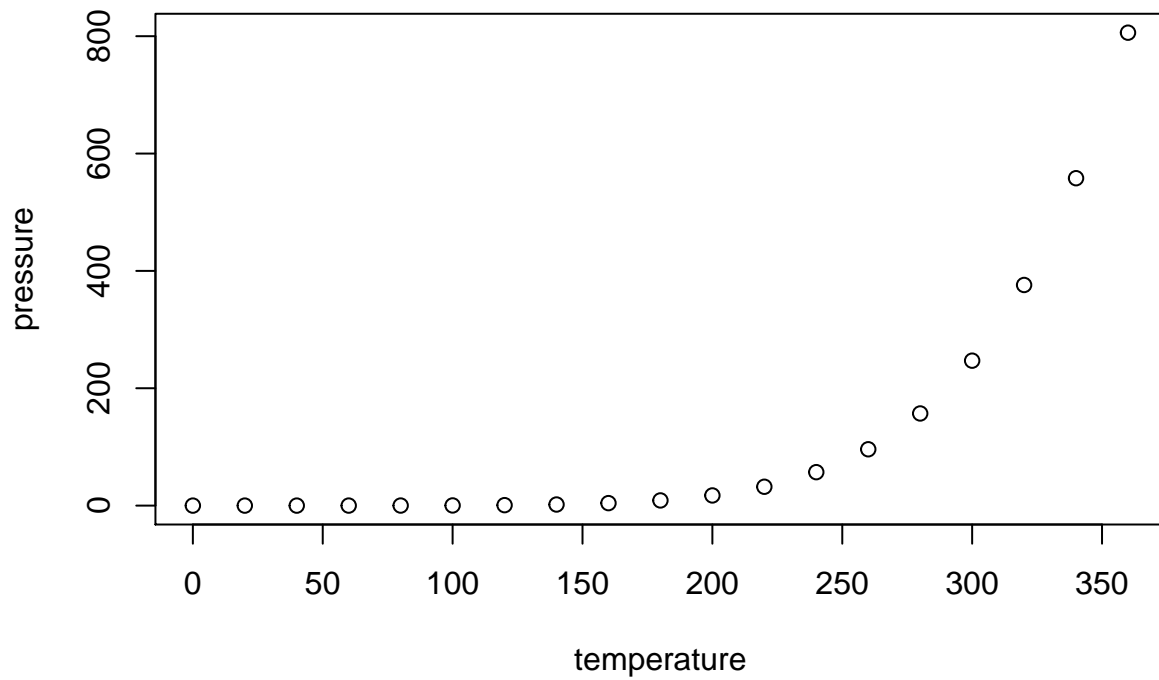
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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.