MyFirstRMD

D. ODay

7/14/2021

R Markdown (This is a level two header. Compare it to what it looks like in markdown)
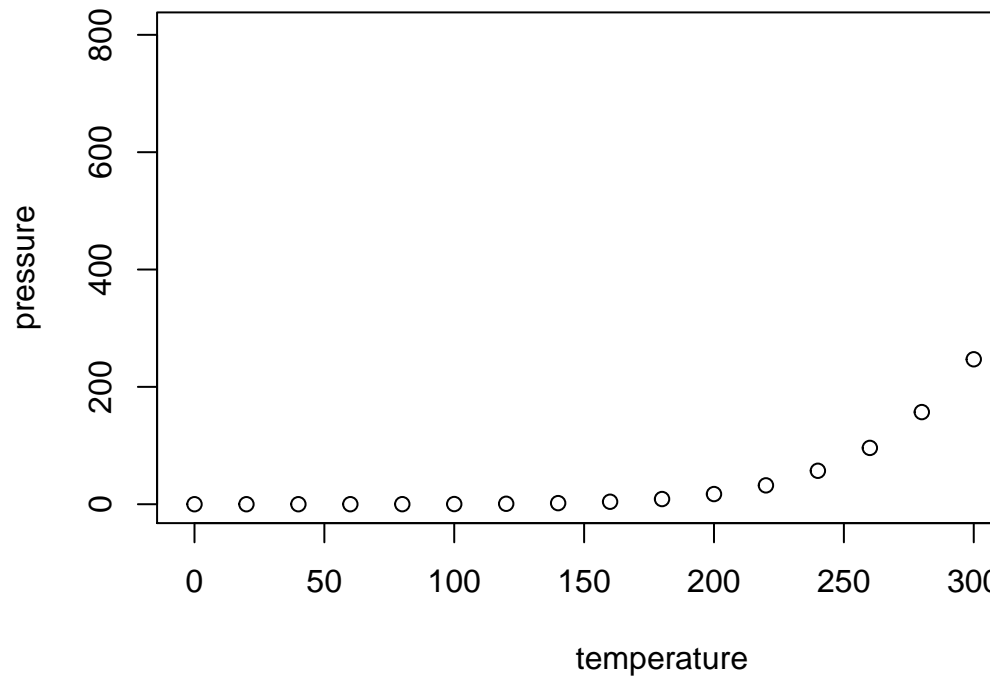
This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

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.

#Things to always do in R Markdown

- Use relative and not absolute paths

    - "../filename" goes up one level
    - "/Data/filename.csv" would access the *filename* in the Data folder of your current directory

- Put any data you are using in a data folder

    - if(!file.exists("Data")){dir.create("Data")}

- Show the code for any assignment you are turning in unless instructed otherwise

    - make sure 'echo=True' is always on

- Comment out lines that you use for debugging you code
- Include your test cases and their output when needed
- At the very end put an R chunk that has sessioninfo()

    - This will document in document the levels and editions of packages used

Things to neve do in R Markdown

- setwd

- – don't want to set the directory on someone elses computer
- install packages

Helpful tips

- name code chunks (each name must be unique)
  - – When document knits it tells where problem occurs
- knit frequently
  - – any substantial change or code. Check to make sure it works
- Try out commans in the console first, the put in code chunks
  - – can help prevent knitting issues
  - – can try in console, got to history tab and 'put in source' once you get it to work
- If you can't get it to knit, set eval=FALSE in the problem chunk until you can debug it
  - – allows us to work on other things until we deubg it