Module2- R Markdown Document 1

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```
knitr::opts_chunk$set(echo = TRUE)
# Set repo
local({r <- getOption("repos")</pre>
      r["CRAN"] <- "http://cran.rstudio.com/"
      options(repos=r)})
# ipak function: install and load multiple R packages.
# check to see if the packages are installed. Install them if the are not, then load them into the R se
ipak <- function(pkg){</pre>
    new.pkg <- pkg[!(pkg %in% installed.packages()[, "Package"])]</pre>
    if (length(new.pkg))
        install.packages(new.pkg, dependencies = TRUE)
    sapply(pkg, require, character.only = TRUE)
}
# usage
packages <- c("tidyr", "dplyr", "ggplot2", "knitr", "rmarkdown", "DBI", "tinytex", "devtools")</pre>
ipak(packages)
## Loading required package: tidyr
## Loading required package: dplyr
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
## Loading required package: ggplot2
## Loading required package: knitr
```

```
## Loading required package: rmarkdown
## Loading required package: DBI
## Loading required package: tinytex
## Loading required package: devtools
## Loading required package: usethis
##
       tidyr
                 dplyr
                         ggplot2
                                      knitr rmarkdown
                                                             DBI
                                                                   tinytex
                                                                            devtools
##
        TRUE
                  TRUE
                             TRUE
                                       TRUE
                                                 TRUE
                                                            TRUE
                                                                      TRUE
                                                                                TRUE
```

This is a level 1 header

R Markdown

This is a level 3 header

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.

Here is a link to GOOGLE

Here is a word in **bold** and another word in **bold**.

Here is a word in *italics* and another word in *italics*.

When we compile our document, we are using the rmarkdown package.

Here are some example R commands:

```
2+2 mean(c(1,2,3,4,5))
```

Here is an example of a non-numbered list:

- Breakfast
 - food
 - * eggs
 - * toast
 - * bacon
 - drink
 - * apple juice
- Lunch
 - taco
- Dinner
 - baked chicken

- broccoli
- rice

Here is an example of a numbered list:

1. Breakfast

- a. food
 - i. eggs
 - ii. toast
 - iii. bacon
- b. drink
 - i. apple juice
- 2. Lunch
 - a. taco
- 3. Dinner
 - a. baked chicken
 - b. broccoli
 - c. rice

Here is an example of a blockquote:

This is a block quote. This paragraph has two lines.

- 1. This is a list inside a block quote.
- 2. Second item.

Here is an example of a nested blockquote:

This is a block quote. This paragraph has two lines.

This text is nested

Here is an example of code in a blockquote:

```
2+2
mean(c(1,2,3,4,5))
```

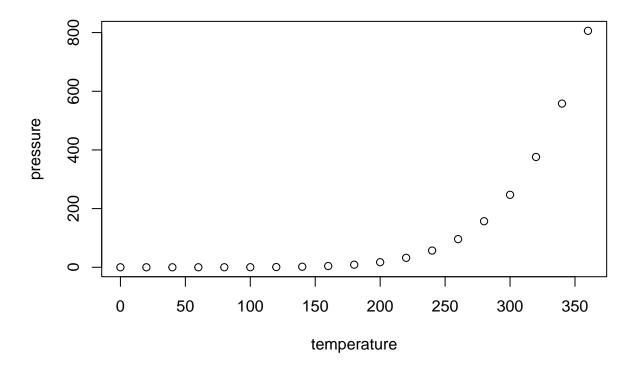
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

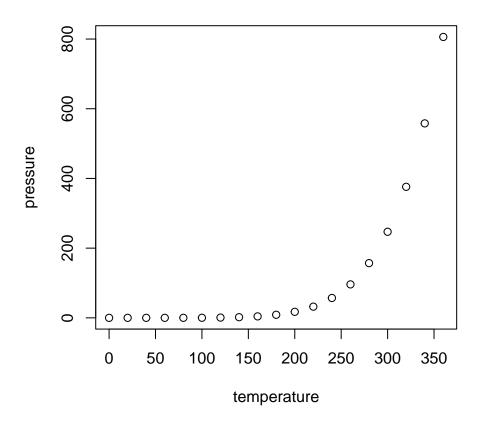
```
dist
##
        speed
                           : 2.00
           : 4.0
                   Min.
                   1st Qu.: 26.00
    1st Qu.:12.0
##
                   Median : 36.00
##
    Median:15.0
           :15.4
                   Mean
                           : 42.98
##
   Mean
    3rd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



Insert Tables

Table 1: Top 6 Rows of Cars Dataset

dist	${\rm speed}$
2	4
10	4
4	7
22	7
16	8
10	9

Insert Equation

$$Y = \beta_0 + \beta_1 x$$