# RWorksheet\_Tamayor#3a

## 2023-10-04

## 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.

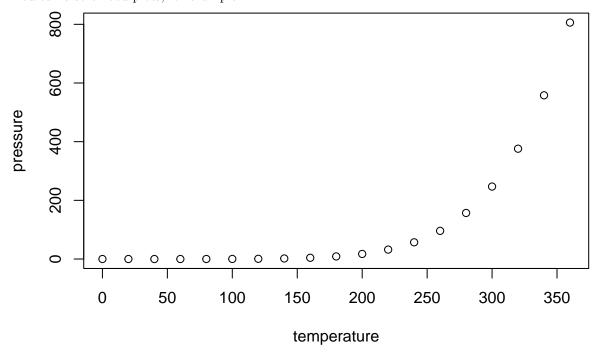
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

#### summary(cars)

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

#### **LETTERS**

UppercaseLetter <- LETTERS [1:26] UppercaseLetter

letters

LowercaseLetter <- letters [1:26] LowercaseLetter

LETTERS

#a.first 11 letters

first11letters <- LETTERS [1:11] first11letters

#b. odd numbered letters

oddnumberletters <- LETTERS[seq(from=1, to=length (LETTERS),by=2)] oddnumberletters

#c. vowels

vowels  $\leftarrow$  LETTERS[c(1,5,9,15,21)] vowels

#d. last 5 lowercase letter

LowercaseLetter <- letters [22:26] LowercaseLetter

#e letters between 15 to 24 letters in lowercase

LowercaseLetter <- letters[15:24] LowercaseLetter

#2. average temperatures in April for Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island, and Davao City. The average temperatures in Celcius are 42, 39, 34, 34, 30, and 27 degrees.

#a. Creating a character vector for the city/town

city <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal Island", "Davao City") city

#output [1] "Tuguegarao City" "Manila" "Iloilo City" "Tacloban" "Samal Island" "Davao City"

#b. The average temperatures in Celcius are 42, 39, 34, 34, 30, and 27 degrees.

temp < -c(42, 39, 34, 34, 30, 27) temp

#output [1] 42 39 34 34 30 27

#c. Create a dataframe to combine the city and the temp by using 'data.frame(). What the R code and its result?