

# RWorksheet\_Gallo#3a.Rmd

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)
```

```
##      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.

```
#code here
```

```
#1
```

```
LETTERS
```

```
## [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S"  
## [20] "T" "U" "V" "W" "X" "Y" "Z"
```

```
letters
```

```
## [1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l" "m" "n" "o" "p" "q" "r" "s"  
## [20] "t" "u" "v" "w" "x" "y" "z"
```

```
#Based on the above vector LETTERS:
```

```
#1a Produce first 11 letters
```

```
Letter11 <- LETTERS[1:11]
```

```
Letter11
```

```
## [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K"
```

```
#1b Contains odd numbered letters
```

```
AllLetters <- LETTERS
```

```
LetterOdd <- AllLetters[seq(1, length(AllLetters), by = 2)]
```

```
LetterOdd
```

```
## [1] "A" "C" "E" "G" "I" "K" "M" "O" "Q" "S" "U" "W" "Y"
```

```
#1c Produce Vowels
```

```
LetterVow <- c("A","E","I","O","U")
```

```
LetterVow
```

```
## [1] "A" "E" "I" "O" "U"
```

```
#Based on the above vector letters:
```

```
#1d Last 5 lowercase letters
```

```
letter5 <- letters[22:26]
```

```
letter5
```

```
## [1] "v" "w" "x" "y" "z"
```

```
#1e Contains letters between 15 to 24
```

```
fifteen23 <- letters[16:23]
```

```
fifteen23
```

```
## [1] "p" "q" "r" "s" "t" "u" "v" "w"
```

```
#2 Create a vector(not a dataframe) with the average temperatures in April for Tuguegarao City, Manila,
```

```
AverageTemperaturesApril = c(42, 39, 34, 34, 30, 27)
```

```
AverageTemperaturesApril
```

```
## [1] 42 39 34 34 30 27
```

```
#2a
```

```
CityVec = c("Tuguegarao City","Manila","Iloilo City", "Tacloban","Samal Island","Davao City")
```

```
CityVec
```

```
## [1] "Tuguegarao City" "Manila" "Iloilo City" "Tacloban"
```

```
## [5] "Samal Island" "Davao City"
```

```
#2b
```

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

```
temp
```

```
## [1] 42 39 34 34 30 27
```

```
#2c
```

```
CityVec <- c("Tuguegarao City","Manila","Iloilo City", "Tacloban","Samal Island","Davao City")
temp <- c(42, 39, 34, 34, 30, 27)
```

```
CityTemp <- data.frame(City = CityVec, Temperature = temp)
CityTemp
```

```
##           City Temperature
## 1 Tuguegarao City         42
## 2           Manila         39
## 3      Iloilo City         34
## 4           Tacloban         34
## 5      Samal Island         30
## 6           Davao City         27
```