

RWorksheet2-Sim

2022-10-06

```
install.packages("rmarkdown")
install.packages("tinytex")
install.packages("devtools")
```

#1a

```
seq <-c(-5:5)
```

```
seq
```

#It displays the negative and positive numbers, then it displays the 0 between the negative and positive

#1b

```
x <- 1:7
```

```
x
```

#2

```
seq(1, 3)
```

```
seq(1, 3, 0.2)
```

#3

```
workers <- c(34, 28, 22, 36, 27, 18, 52, 39, 42, 29, 35, 31, 27, 22, 37, 34, 19, 20, 57, 49, 50, 37, 46,
            24,33, 41, 53, 40, 18, 44, 38, 41, 48, 27, 39, 19, 30, 61, 54, 58, 26, 18)
```

```
workers
```

```
workers[3]
```

#3b

```
workers [2]
```

```
workers [3]
```

#3C

```
workers [2:50]
```

#4

```
x <- c("first"=3, "second"=0, "third"=9)
```

```
x
```

#4a

```
x[c("first", "third")] #The output displays only the "first" and "third" variables using array
```

#4b

```
x <- c("first"=3, "second"=0, "third"=9)
```

```
x
```

```
x[c("first", "third")]
```

#5a

```
x <-(-3:2)
```

```

x

x[2]<-0
x

#6a
Month <- c("Jan", "Feb", "March", "Apr", "May", "June")
Price_per_liter_php <- c(52.50, 57.25, 60.00, 65.00, 74.25, 54.00)
Purchase_quantity_liter <- c(25, 30, 40, 50, 10, 45)

data_frame <- data.frame(Month, Price_per_liter_php, Purchase_quantity_liter )
data_frame

#6b
weighted.mean(Price_per_liter_php, Purchase_quantity_liter)

#7
data <- c(length(rivers), sum(rivers), mean(rivers), median(rivers), var(rivers),
          sd(rivers), min(rivers), max(rivers))
data

#8
PowerRanking <- 1:25
CelebrityName <- c("Tom Cruise", "Rolling Stones", "Oprah Winfrey", "U2",
                  "Tiger Woods", "Steven Spielberg", "Howard Stern", "50 Cent", "Cast of the sopranos",
                  "Dan Brown", "Bruce Springsteen", "Donald Trump", "Muhammad Ali", "Paul McCartney",
                  "George Lucas", "Elton John", "David Letterman", "Phil Mickelson", "J.K Rowling",
                  "Bradd Pitt", "Peter Jackson", "Dr. Phil McGraw", "Jay Lenon", "Celine Dion", "Kobe B")
Pay <- c(67, 90, 225, 110, 90, 332, 302, 41, 52, 88, 55, 44, 55, 40,
        233, 34, 40, 47, 75, 25, 39, 45, 32, 40, 31)

Data_Ranking <- data.frame(PowerRanking, CelebrityName, Pay)
Data_Ranking

PowerRanking [19] <- 15
PowerRanking
Pay [19] <- 90
Pay

Magazine_Ranking <- data.frame(PowerRanking, CelebrityName, Pay)
Magazine_Ranking

```

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:

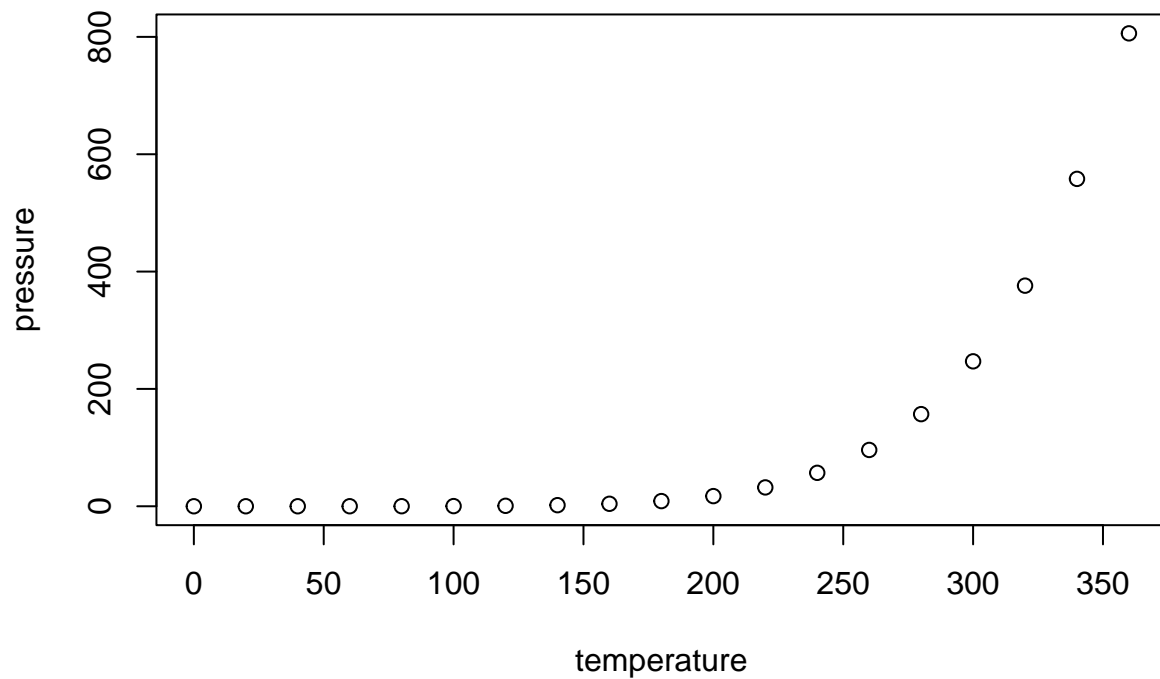
```
summary(cars)
```

```
##           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.