RWorksheet3_Sim

2022-11-12

```
#a
LETTERS[1:11]
#b
LETTERS[1:26 %% 2==1]
#c
vowel <- LETTERS[c(1,5,9,15,21)]
vowel
#d
letters[22:26]
#e
letters[15:24]


#2)
#a
city <- c("Tuguegarao City","Manila","Iloilo City","Tacloban","Samal Island","Davao City")
city
#b
temp <- c(42,39,34,34,30,27)
temp
#c
names(temp) <- city
temp
#d
temp[5:6]


#Matrix

#2
#a
num1 <- matrix(data = c(1:8,11:14),3,4)
num1
#b
num1 * 2
#c
num1[2,]
#d
num1[c(1,2), c(3,4)]
#e
num1[c(3),c(2,3)]
#f
num1[,4]
#g
```

```
dimnames(num1) <- list(c("isa","dalawa","tatlo"), c("uno","dos","tres","quatro"))
num1
#h
dim(num1) <- c(6,2)
num1


#3)
#a
num2 <- c(1,2,3,6,7,8,9,0,3,4,5,1)
threedimensional <- array(rep(num2,2), dim = c(2,4,3))
threedimensional
#b
dim(threedimensional)
#There are three dimensions in the array
#c
dimnames(threedimensional) <- list(letters[1:2], LETTERS[1:4], c("1st-Dimensional Array",
                                                                 "2nd-Dimentional Array",
                                                                 "3rd-Dimensional Array"))
```

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.

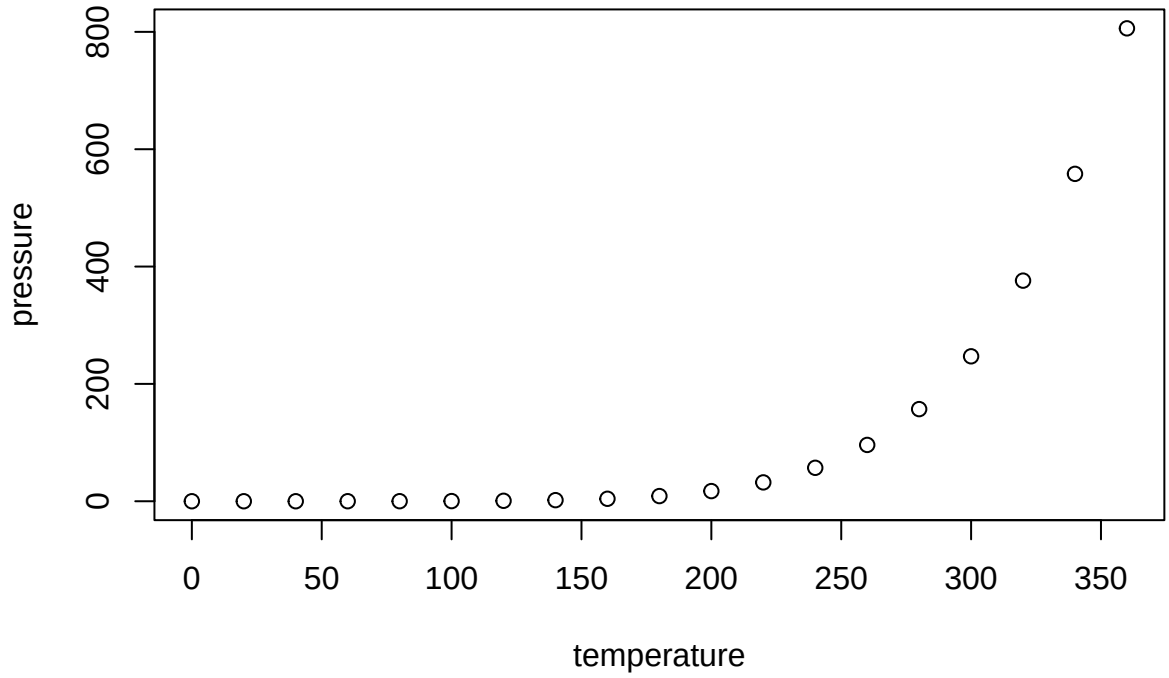
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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.