Tarea 01

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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.

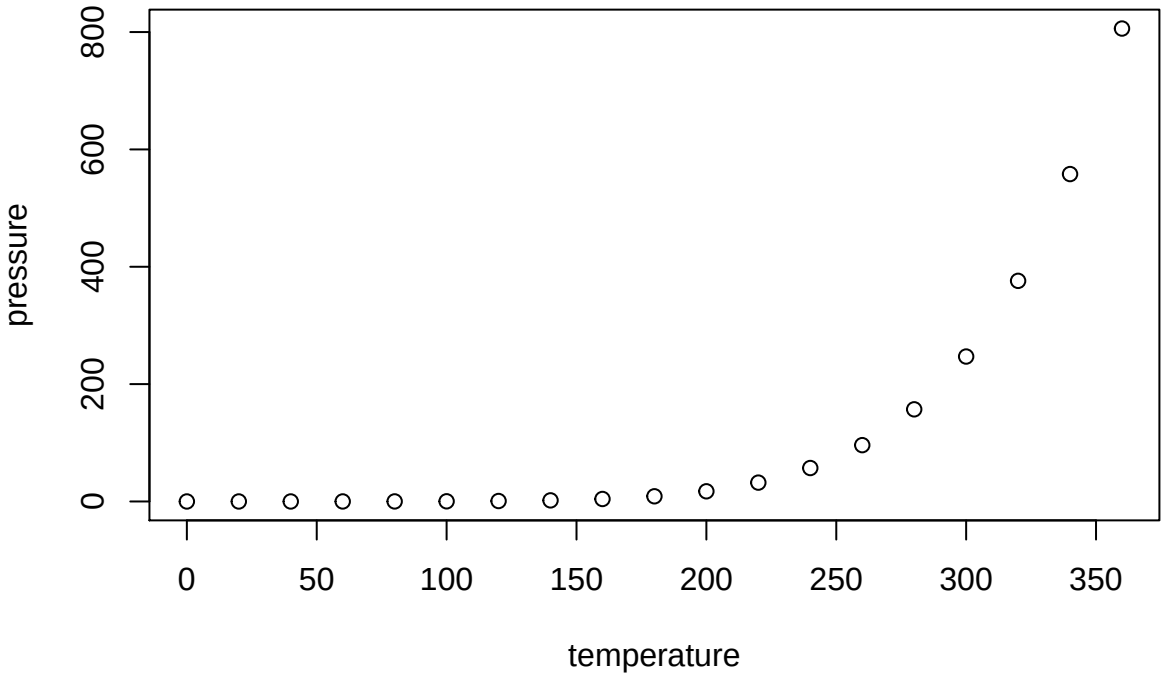
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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.

if(!require(“repmis”)){install.packages(“repmis”)} library(“repmis”) data<- source_data(‘https://raw.githubusercontent.com/JCMO-ITAM/Data4Analysis/master/d4a_allstateclaim_data.csv’)

J <- nrow(data) n0 <- nrow(as.matrix(which(data$Claim_Amount==0))) J;n0

theta0_star <- n0/J theta0_star

theta0 <- seq(.001, .999, .001) lik_theta0 <- dbinom(theta0, J, 1-(n0/J))

plot(theta0, lik_theta0, xlim=c(0,1), ylim=c(0, 1.25 * max(lik_theta0,1.6)), type = “l”, ylab= “Verosimilitud”, lty = 3, xlab= “theta_0”, las=1, main="“,lwd=2, cex.lab=1.5, cex.main=1.5, col =”darkorange", axes=FALSE) axis(1, at = seq(0,1,.2)) #adds custom x axis axis(2, las=1) # custom y axis

theta1 <- seq(.001, .999, .001) lik_theta1 <- dpois(theta1, n0/J)

plot(theta1, lik_theta1, xlim=c(0,1), ylim=c(0, 1.25 * max(lik_theta1,1.6)), type = “l”, ylab= “Verosimilitud”, lty = 3, xlab= “theta_0”, las=1, main="“,lwd=2, cex.lab=1.5, cex.main=1.5, col =”darkorange", axes=FALSE) axis(1, at = seq(0,1,.2)) #adds custom x axis axis(2, las=1) # custom y axis