123190103\_Reza Pramudya Bagaskara\_Tugas Modul 3

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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:

library(dslabs)

## Warning: package 'dslabs' was built under R version 4.1.1

data(murders)  
  
str(murders)

## 'data.frame': 51 obs. of 5 variables:  
## $ state : chr "Alabama" "Alaska" "Arizona" "Arkansas" ...  
## $ abb : chr "AL" "AK" "AZ" "AR" ...  
## $ region : Factor w/ 4 levels "Northeast","South",..: 2 4 4 2 4 4 1 2 2 2 ...  
## $ population: num 4779736 710231 6392017 2915918 37253956 ...  
## $ total : num 135 19 232 93 1257 ...

names(murders)

## [1] "state" "abb" "region" "population" "total"

a <- murders$abb  
class(a)

## [1] "character"

b <- murders[,2]  
all(a == b)

## [1] TRUE

levels(murders$region)

## [1] "Northeast" "South" "North Central" "West"

length(murders$region)

## [1] 51

table(murders$region)

##   
## Northeast South North Central West   
## 9 17 12 13

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.