

Markdown_Lab2

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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.

```
##Calculations with defined data
```

```
department <- 38
employees <- 400
salary <- 100000
print(department+employees)
```

```
## [1] 438
```

```
print(employees*salary)
```

```
## [1] 4e+07
```

```
##the square function
```

```
square_function <- function(a){return(a*a)}
square_function(9)
```

```
## [1] 81
```

```
A <- c("a", "a", "b", "b")
B <- c(10, 20, 30, 40)
dataframe <- data.frame(A, B)
print(dataframe)
```

```
##   A  B
```

```
## 1 a 10
```

```
## 2 a 20
## 3 b 30
## 4 b 40

A <- c("a", "a", "b", "b")
B <- c(5, 10, 15, 20)
dataframe <- data.frame(A, B)
print(dataframe)

##   A  B
## 1 a  5
## 2 a 10
## 3 b 15
## 4 b 20
```