title: "Assignment1" output: html_document —

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 (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:

```
chooseCRANmirror(graphics = getOption("menu.graphics"), ind = 79,
                local.only = FALSE)

CreditCardDefault <- read.csv("Default.csv")

View(CreditCardDefault)

summary(CreditCardDefault)
```

```
##    CustomerID        default            student              balance
## Min.   :  1.0   Length:199         Length:199          Min.   :   0.0
## 1st Qu.: 50.5   Class :character   Class :character    1st Qu.: 449.6
## Median :100.0   Mode  :character   Mode  :character    Median : 789.5
## Mean   :100.0                                          Mean   : 787.0
## 3rd Qu.:149.5                                          3rd Qu.:1116.8
## Max.   :199.0                                          Max.   :2205.8
##     income
## Min.   : 7492
## 1st Qu.:21815
## Median :35704
## Mean   :34861
## 3rd Qu.:45616
## Max.   :68038
```

```
install.packages("vcd")
```

```
## Installing package into 'C:/Users/ANUJEETH/Documents/R/win-library/4.1'
## (as 'lib' is unspecified)
```

```
## package 'vcd' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##   C:\Users\ANUJEETH\AppData\Local\Temp\RtmpC22H8s\downloaded_packages
```

```
mean(CreditCardDefault$income)
```

```
## [1] 34860.53
```

```
median(CreditCardDefault$balance)
```

```
## [1] 789.4951
```

```
mode(CreditCardDefault$student)
```

```
## [1] "character"
```

```
install.packages("dplyr")
```

```
## Installing package into 'C:/Users/ANUJEETH/Documents/R/win-library/4.1'
## (as 'lib' is unspecified)
```

```
## package 'dplyr' successfully unpacked and MD5 sums checked
```

```
## Warning: cannot remove prior installation of package 'dplyr'
```

```
## Warning in file.copy(savedcopy, lib, recursive = TRUE): problem copying C:
## \Users\ANUJEETH\Documents\R\win-library\4.1\00LOCK\dplyr\libs\x64\dplyr.dll
## to C:\Users\ANUJEETH\Documents\R\win-library\4.1\dplyr\libs\x64\dplyr.dll:
## Permission denied
```

```
## Warning: restored 'dplyr'
```

```
##
## The downloaded binary packages are in
##   C:\Users\ANUJEETH\AppData\Local\Temp\RtmpC22H8s\downloaded_packages
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
filter(CreditCardDefault, income==44361.62507)
```

```
##   CustomerID default student  balance    income
## 1          1     No      No 729.5265 44361.63
```
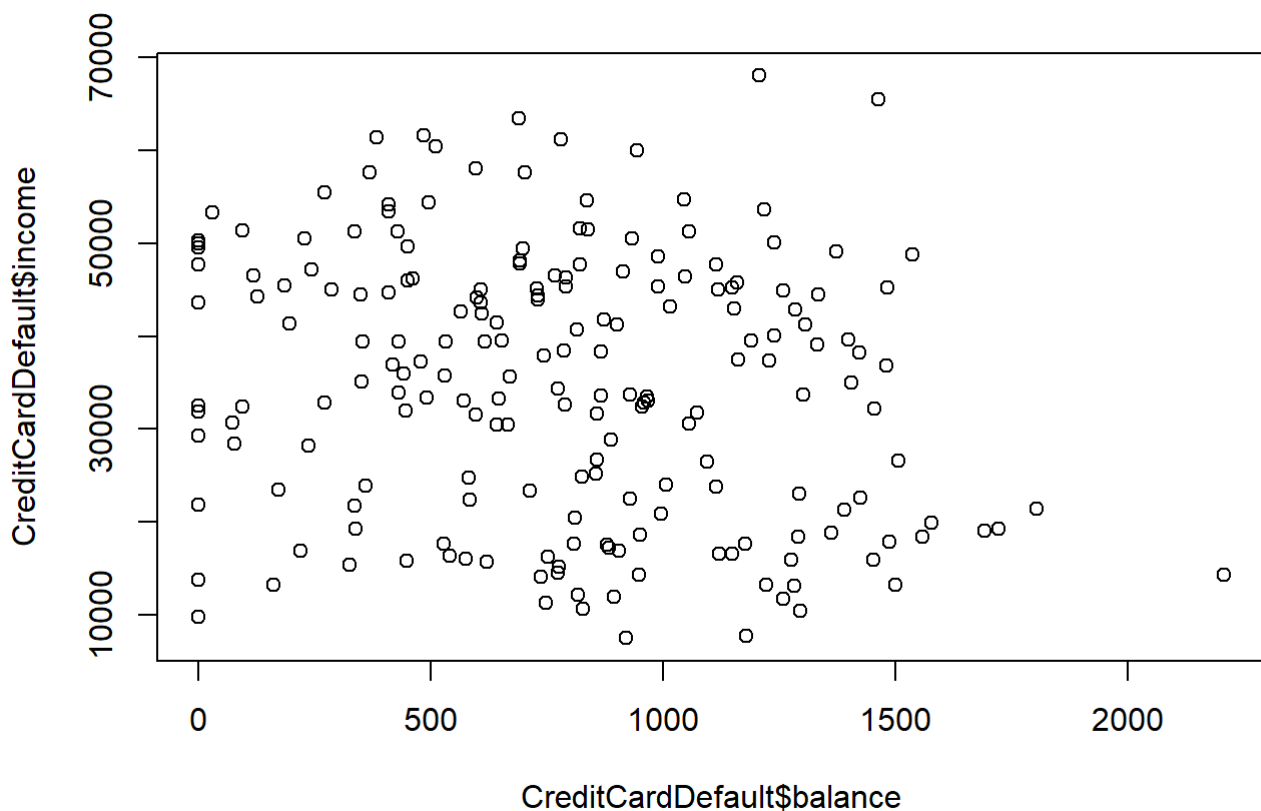
```
summary(CreditCardDefault)
```

```
##     CustomerID        default            student             balance
## Min.   :  1.0    Length:199         Length:199          Min.   :   0.0
## 1st Qu.: 50.5    Class :character   Class :character    1st Qu.: 449.6
## Median :100.0    Mode  :character   Mode  :character    Median : 789.5
## Mean   :100.0                                           Mean   : 787.0
## 3rd Qu.:149.5                                           3rd Qu.:1116.8
## Max.   :199.0                                           Max.   :2205.8
##     income
## Min.   : 7492
## 1st Qu.:21815
## Median :35704
## Mean   :34861
## 3rd Qu.:45616
## Max.   :68038
```

Including Plots

You can also embed plots, for example:

```
plot(CreditCardDefault$balance, CreditCardDefault$income)
```


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