

Analytics Programming Assessment

Ryan Greenup - 17805315

Contents

Preamble	1
Load Packages	1
Knitr Configuration	2
Question 1	2
d. Submission Receipt	2
e. Set Variables	2
f. Print Variables	2
Question 2	4
Question 3	4
Question 4	4

Preamble

Load Packages

```
## (01) Clean up the Iris Data

# Preamble
## Install Pacman
load.pac <- function() {

  if(require("pacman")){
    library(pacman)
  }else{
    install.packages("pacman")
    library(pacman)
  }

  pacman::p_load(xts, sp, gstat, ggplot2, rmarkdown, reshape2, ggmap,
    parallel, dplyr, plotly, tidyverse, reticulate, UsingR, Rmpfr,
    swirl, corrplot, gridExtra, mise, latex2exp, tree, rpart, knitr,
    bookdown)

}

load.pac()
```

```
## Loading required package: pacman
```

Knitr Configuration

Make Chunks verbose

```
knitr::opts_chunk$set(echo = TRUE, eval = TRUE)
```

Set Figure Locations

```
knitr::opts_chunk$set(  
  fig.path = "figure/"  
)
```

Question 1

d. Submission Receipt

The submission receipt for the preliminary assessment is provided as a screenshot at figure 1 and the receipt number is:

95d652b5-e2e7-4f43-b7e5-3290b9e4ef0b

```
include_graphics("./Receipt.png")
```

e. Set Variables

```
studentname <- "Ryan Greenup"  
studentno   <- 17805315
```

f. Print Variables

i. Show the Code Without the Results

Code can be printed without the results being printed by using the `echo=FALSE` chunk option, for example the following code:

```
\```{r, results=FALSE}  
print(studentname)  
print(studentno)  
\```
```

Will produce the corresponding output:

```
print(studentname)  
print(studentno)
```

Success! Your submission appears on this page. The submission confirmation number is 95d652b5-e2e7-4f43-b7e5-3290b9e4ef0b. Copy and save this number as proof of your submission. [View all of your submission receipts in My Grades.](#)

Review Submission History: Assignment Preliminary

Assignment Instructions

box

Question 1

Ryan Greenup

26/05/2020

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>.

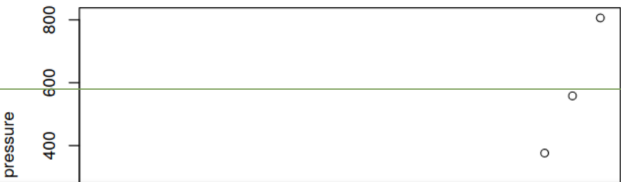
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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:



speed	dist
4.0	2.00
12.0	26.00
15.0	36.00
15.4	42.98
19.0	56.00
25.0	120.00

Figure 1: Hi

ii. Show the Evaluated Output in the Document

```
## [1] "Ryan Greenup"  
## [1] 17805315
```

ii. Show the Evaluated Output and corresponding code in the Document

```
print(studentname)
```

```
## [1] "Ryan Greenup"
```

```
print(studentno)
```

```
## [1] 17805315
```

Question 2

Question 3

Question 4