GY7702 Assignment

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18/12/2020

Introduction

This document was created to meet the requirements of GY7702 R for Data Science at University of Leicester. It was designed and created in R Markdown, a markup language that allows users to create documents that can be formatted to embed code blocks, code outputs and hyperlinks.When the R Markdown file is compiled, the markup language is hidden and the document is displayed in plain text.

This content was created using R, Rstudio, RMarkdown and GitHub.

For further information regarding the source code, data and libraries used in this assignment, please see the project's GitHub page at https://bit.ly/3arpcv8 (created using Bitly.com).

Materials

The libraries used in this assignment:

```
library(tidyverse)
library(palmerpenguins)
library(dplyr)
library(knitr)
library(kableExtra)
library(readr)
library(tinytex)
library(lubridate)
library(gridExtra)
library(ggplot2)
```


References

The sudent would like to acknowledge that this document includes teaching materials from Dr Stefano De Sabbata for the module GY7702 R for Data Science. Stefano's teaching materials can be found here

R for Data Science by Garrett Grolemund and Hadley Wickham, O'Reilly Media, 2016. See online book

Note to reader

Where a function is mentioned for the **first time**, a brief explanation will be given before the code block. Thereafter, this explanation will be dismissed.

Question 1

A vector of 25 numbers between 1 and 7 are listed below. These values represent answers to a survey question

```
## NA 3 4 4 5 2 4 NA 6 3 5 4 0 5 7 5 NA 5 2 4 NA 3 3 5 NA
```

- 1 = Completely disagree
- 2 = Disagree
- 3 = Somehow disagree
- 4 = Neither agree or disagree
- 5 = Somehow agree
- 6 = Agree
- 7 = Completely agree
- NA = missing value

Question 1.1

Write the code necessary to check whether all participants to the survey either completely disagree or completely agree, once the missing values are excluded

```
#code
```

```
#code
```

Question 1.2

Write the code necessary to extract the indexes related to the participants in the survey who at least somehow agree or more.

```
#code
```

Question 2

...

Question 3

...

Question 4