assignment9

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Exercise 1

Download from GitHub the data file by clicking on this link: Example_5.xls. Open it in Excel and figure out which sheet of data we should import into R. At the same time figure out how many initial rows need to be skipped. Import the data set into a data frame and show the structure of the imported data using the str() command. Make sure that your data has n=31 observations and the three columns are appropriately named. If you make any modifications to the data file, comment on those modifications.

```
# Load in libraries
library(tidyverse)
library(dplyr)
library(readxl)
```

```
data.2 <- read_excel('../raw_data/Example_5.xls',sheet=2,range="A5:C36")

#data.2 <- data.2 %>% select((1:3)) %>% slice(-(1:4))
#colnames(data.2)<-c("Girth","Height","Volume")
#str(data.2)

head(data.2)</pre>
```

```
## # A tibble: 6 x 3
     Girth Height Volume
     <dbl>
             <dbl>
                    <dbl>
## 1
       8.3
                70
                     10.3
## 2
       8.6
                65
                     10.3
## 3
       8.8
                63
                     10.2
      10.5
                72
                     16.4
## 5
      10.7
                81
                     18.8
## 6
     10.8
                83
                     19.7
```

Exercise 2

Download from GitHub the data file by clicking on this link: Example_3.xls. Import the data set into a data frame and show the structure of the imported data using the tail() command which shows the last few rows of a data table. Make sure the Tesla values are NA where appropriate and that both -9999 and NA are imported as NA values. If you make any modifications to the data file, comment on those modifications.

```
##
    model
                   mpg
                         cyl disp
                                      hp drat
                                                  wt qsec
                                                                    am gear carb
                                                              ٧S
     <chr>
                 <dbl> <
## 1 Lotus Europa 30.4
                           4 95.1
                                     113 3.77 1.51 16.9
                                                                           5
                                                                     1
                                                               1
## 2 Ford Panter~ 15.8
                           8 351
                                     264 4.22 3.17
                                                      14.5
                                                               0
                                                                     1
                                                                           5
                                                                                 4
## 3 Ferrari Dino 19.7
                           6 145
                                     175 3.62 2.77
                                                     15.5
                                                               0
                                                                           5
                                                                                 6
                                                                     1
## 4 Maserati Bo~ 15
                           8 301
                                     335 3.54 3.57 14.6
                                                               0
                                                                     1
                                                                           5
                                                                                 8
## 5 Volvo 142E
                  21.4
                           4 121
                                     109 4.11 2.78 18.6
                                                                                 2
                                                              1
                                                                     1
                                                                           4
## 6 Tesla Model~ 98
                          NA NA
                                     778 NA
                                                4.94 10.4
                                                              NA
                                                                     0
                                                                           1
                                                                                NA
```