## Task3

## Darya Nemirich 6 April 2019

```
manage_df <- function(df, row_selection, column_selection, operation){
  df_subset <- data.frame(df[row_selection, column_selection])</pre>
  calculation function <- function(x, operation){</pre>
    if (is.numeric(x)) {
     return(operation(x))
   } else {
      return(table(x))
   }
  applying <- sapply(df_subset, calculation_function, operation)
  return(list(df_subset, applying))
df3 <- mtcars
head(df3)
##
                      mpg cyl disp hp drat
                                                wt qsec vs am gear carb
## Mazda RX4
                     21.0
                            6 160 110 3.90 2.620 16.46
## Mazda RX4 Wag
                     21.0
                            6 160 110 3.90 2.875 17.02
                                                                  4
                                                                       4
## Datsun 710
                     22.8
                           4 108 93 3.85 2.320 18.61
                                                          1
                                                                       1
                           6 258 110 3.08 3.215 19.44 1 0
## Hornet 4 Drive
                                                                  3
                                                                       1
                     21.4
## Hornet Sportabout 18.7
                            8 360 175 3.15 3.440 17.02 0 0
                                                                       2
                            6 225 105 2.76 3.460 20.22 1 0
## Valiant
                     18.1
                                                                       1
manage_df(df3, c(1:15), c('mpg', 'disp'), sum)
## [[1]]
##
                       mpg disp
                      21.0 160.0
## Mazda RX4
## Mazda RX4 Wag
                      21.0 160.0
## Datsun 710
                      22.8 108.0
## Hornet 4 Drive
                      21.4 258.0
## Hornet Sportabout 18.7 360.0
## Valiant
                      18.1 225.0
## Duster 360
                      14.3 360.0
## Merc 240D
                      24.4 146.7
## Merc 230
                      22.8 140.8
## Merc 280
                      19.2 167.6
## Merc 280C
                      17.8 167.6
## Merc 450SE
                      16.4 275.8
## Merc 450SL
                      17.3 275.8
## Merc 450SLC
                      15.2 275.8
## Cadillac Fleetwood 10.4 472.0
##
## [[2]]
##
      mpg
            disp
## 280.8 3553.1
```