Assignment 1

2023-01-29

```
#Dataset source: https://www.kaggle.com/datasets/imdevskp/corona-virus-report
library(readr)
SL_country_wise_latest <- read.csv("~/Downloads/archive (2)/country_wise_latest.csv")
```

```
#Showing the chosen Dataset
summary(SL_country_wise_latest)
```

```
##   Country.Region        Confirmed          Deaths           Recovered
##   Length:187        Min.   :      10   Min.   :      0.0   Min.   :      0.0
##   Class :character  1st Qu.:    1114   1st Qu.:     18.5   1st Qu.:    626.5
##   Mode  :character  Median :    5059   Median :    108.0   Median :   2815.0
##                     Mean   :   88131   Mean   :   3497.5   Mean   :  50631.5
##                     3rd Qu.:   40460   3rd Qu.:    734.0   3rd Qu.:  22606.0
##                     Max.   : 4290259   Max.   : 148011.0   Max.   :1846641.0
##      Active            New.cases         New.deaths        New.recovered
##   Min.   :      0.0   Min.   :     0.0   Min.   :    0.00   Min.   :     0.0
##   1st Qu.:    141.5   1st Qu.:     4.0   1st Qu.:    0.00   1st Qu.:     0.0
##   Median :   1600.0   Median :    49.0   Median :    1.00   Median :    22.0
##   Mean   :  34001.9   Mean   :  1223.0   Mean   :   28.96   Mean   :   933.8
##   3rd Qu.:   9149.0   3rd Qu.:   419.5   3rd Qu.:    6.00   3rd Qu.:   221.0
##   Max.   :2816444.0   Max.   : 56336.0   Max.   : 1076.00   Max.   : 33728.0
##   Deaths...100.Cases Recovered...100.Cases Deaths...100.Recovered
##   Min.   : 0.000     Min.   :  0.00        Min.   :0.00
##   1st Qu.: 0.945     1st Qu.: 48.77        1st Qu.:1.45
##   Median : 2.150     Median : 71.32        Median :3.62
##   Mean   : 3.020     Mean   : 64.82        Mean   : Inf
##   3rd Qu.: 3.875     3rd Qu.: 86.89        3rd Qu.:6.44
##   Max.   :28.560     Max.   :100.00        Max.   : Inf
##   Confirmed.last.week X1.week.change   X1.week...increase  WHO.Region
##   Min.   :      10    Min.   :    -47  Min.   : -3.840     Length:187
##   1st Qu.:    1052    1st Qu.:     49  1st Qu.:  2.775     Class :character
##   Median :    5020    Median :    432  Median :  6.890     Mode  :character
##   Mean   :   78682    Mean   :   9448  Mean   : 13.606
##   3rd Qu.:   37080    3rd Qu.:   3172  3rd Qu.: 16.855
##   Max.   : 3834677    Max.   : 455582  Max.   :226.320
```

```
#Modifying the variable with logic
SL_country_wise_latest$Recovered<-(SL_country_wise_latest$Recovered-mean(SL_country_wise_latest$Recovere
SL_country_wise_latest$Deaths
```

```
##   [1]  1269   144  1163    52    41     3  3059   711   167   713
##  [11]   423    11   141  2965     7   538  9822     2    35     0
##  [21]  2647   294     2 87618     3   347    53     6     1    22
##  [31]     0   391  8944    59    75  9187  4656  8777     7    54
##  [41]   208   115    96   139    87    19   373   613    58     0
##  [51]  1083  5532  4652   408    51     0    69    34   228     0
```
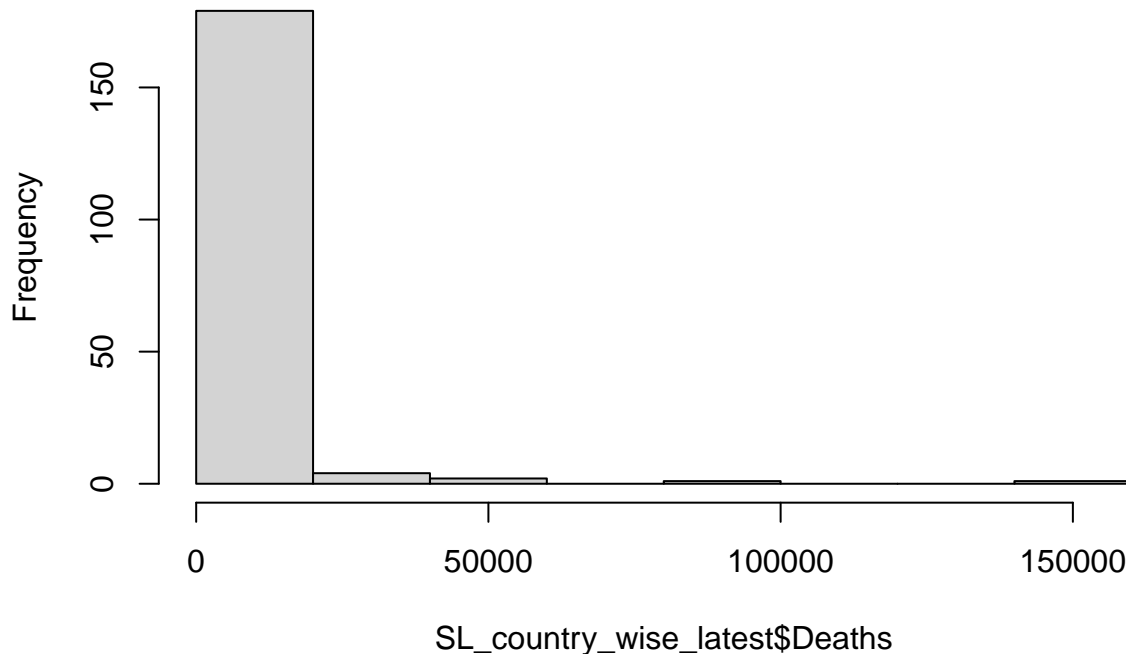
```
##  [61]    329  30212     49      8     16   9125    168    202      0      0
##  [71]   1761     45     26     20    158      0   1166    596     10  33408
##  [81]   4838  15912   4458   1764    474  35112     10    998     11    585
##  [91]    285    185    438   1301      0     31     51     12     72     64
## [101]      1     80    112     91     99    124     15    124      9    156
## [111]     10  44022    748      4      0     45    316     11      8     48
## [121]   6160     22    108     69    860    466    255    393   5842   1322
## [131]      0     43  18418   1945   1676   1719    165   2206  13334      5
## [141]      0      0      0     42     14   2760    194    543      0     66
## [151]     27     28    116     93   7067    300     46  28432     11    720
## [161]     24   5700   1978     40      7     60     21     58      0     18
## [171]      8     50   5630 148011      2   1636    345  45844     35    121
## [181]    146      0     78      1    483    140     36
```

```r
#The Histogram's display
hist(SL_country_wise_latest$Deaths)
```

Histogram of SL_country_wise_latest$Deaths


```r
#ScatterPlot

library(ggplot2)
ggplot(SL_country_wise_latest)+
  aes(x=Recovered,y=Deaths)+
  geom_point(shape="circle",size=1.5,colour="#112446")+
  theme_minimal()
```