

# Assignment 1

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```
archive <-read.csv("C://Users//keert//Downloads//archive//Global Population Trends(2016-2022).csv")  
#This line reads a CSV file located at a path named as "archive"
```

```
View/archive)  
#It displays the "archive" data frame in the viewer to visually inspect the data set
```

```
mean/archive$Year)
```

```
## [1] 2019.02
```

```
#It calculates the average of the "year" column in "archive"
```

```
sd/archive$Year)
```

```
## [1] 1.414068
```

```
#It calculates the standard deviation of "Year" column in "archive"
```

```
table/archive$Total.Population)
```

```
##  
##      -      1,463,265      1,477,469      1,487,340      1,494,188      10,024,283  
##      19              1              1              1              1              1  
## 10,093,121 10,137,750      105,962      106,442      106,537      106,585  
##      1              1              1              1              1              1  
## 11,427,054 11,488,980 11,538,604 11,592,952 163,683,958 165,516,222  
##      1              1              1              1              1              1  
## 167,420,951 169,356,251 2,790,974 2,805,608 2,811,666 2,820,602  
##      1              1              1              1              1              1  
## 2,836,557 2,837,849 2,854,191 2,866,376 24,966,643 25,340,217  
##      1              1              1              1              1              1  
## 25,655,289 25,688,079      279,688      280,180      280,693      281,200  
##      1              1              1              1              1              1  
## 31,273,533 32,353,588 33,428,486 34,503,774 36,686,784 37,769,499  
##      1              1              1              1              1              1  
## 38,972,230      382,066      389,095      394,921 40,099,462 400,031  
##      1              1              1              1              1              1  
##      401,906      404,557      406,471      407,906 41,927,007 42,705,368  
##      1              1              1              1              1              1  
## 43,451,666 44,177,969 44,494,502 44,938,712      45,035 45,376,763
```

```
##           1           1           1           1           1           1
## 45,808,747    46,189    47,321    48,424    75,013    76,343
##           1           1           1           1           1           1
##      77,700    79,034  8,840,521  8,879,920  8,916,864  8,955,797
##           1           1           1           1           1           1
##  9,302,585  9,379,952  9,419,758  9,438,785  9,939,771    91,626
##           1           1           1           1           1           1
##      92,117    92,664    93,219
##           1           1           1
```

*#It creates a frequency table of unique values in "Total.Population" column*

```
str(archive$Life.Expectancy)
```

```
## chr [1:99] "63" "63" "64" "63" "62" "79" "79" "79" "77" "76" "76" "76" ...
```

*#It displays the structure of "Life.Expectancy" column*

```
median(archive$Birth.Rate)
```

```
## [1] 12.1
```

*#This calculates the median value of "Birth.Rate" column in "archive"*

```
summary(archive$Death.Rate)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.000   5.600   7.600   7.300   9.204  16.553
```

*#This provides the summary statistics for "Death.Rate" column*

```
archive$Death.Rate_factor <- factor(archive$Death.Rate)
```

*#This line creates a new factor variable called "Death.Rate\_factor" based on the values in "Death.Rate"*

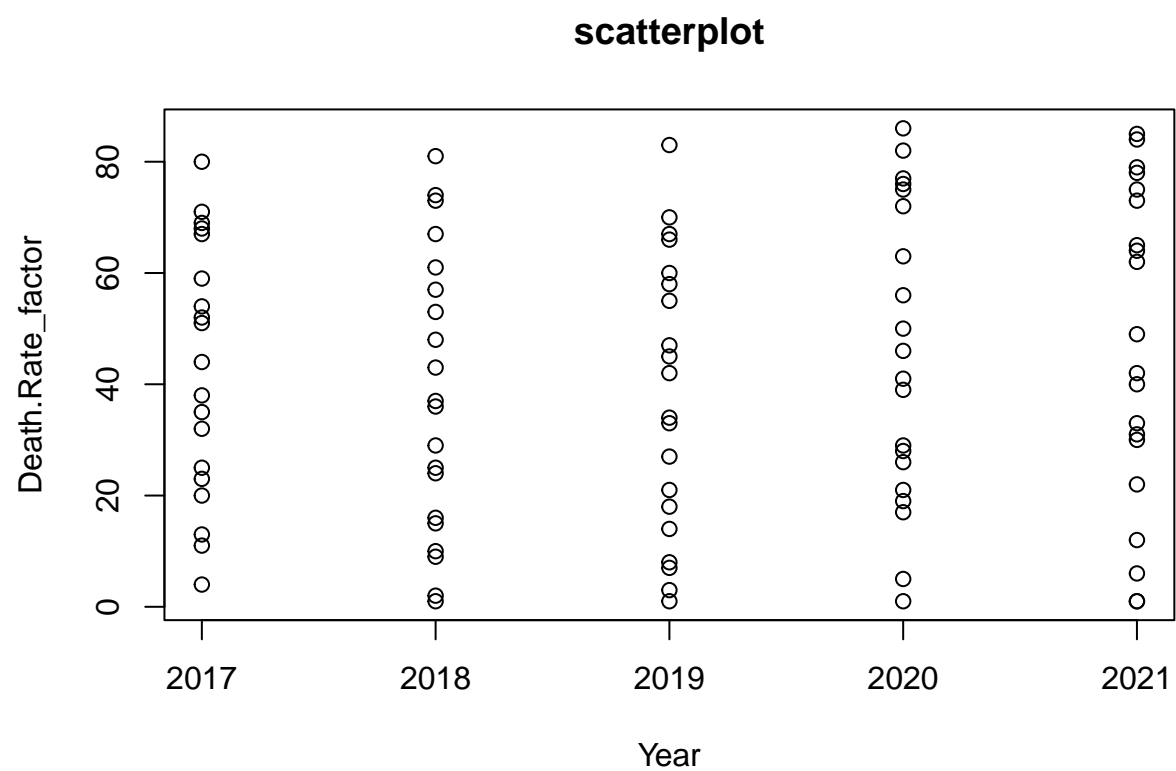
```
x <- c(archive$Year)
```

*#To create a vector "x" contains the values from the column "Year"*

```
y <- c(archive$Death.Rate_factor)
```

*#To create a vector "y" contains the values from the column "Death.Rate\_factor"*

```
plot(x, y, xlab = "Year", ylab = "Death.Rate_factor", main = "scatterplot")
```



*#It creates a scatterplot with "Year" on x-axis and "Death.Rate\_factor" on y-axis.It also sets labels f*