Fundamentals of Machine Learning- Assignment 1

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```
#Importing the data
```

```
data =read.csv("C:/Users/patlo/OneDrive/Desktop/FML/World_Army_Dataset.csv")
View(data)
summary(data)
```

```
##
       S.no.
                     country
                                       activeDuty
                                                       paramilitary
         : 1.00
                   Length:168
                                                  0
                                                                    0
                                                      Min.
  1st Qu.: 42.75
                   Class :character
                                                                    0
                                     1st Qu.:
                                                9412
                                                       1st Qu.:
## Median : 84.50
                   Mode :character
                                     Median : 27325
                                                      Median:
                                                                 5400
## Mean : 84.50
                                     Mean
                                           : 119932
                                                      Mean
                                                             : 143766
## 3rd Qu.:126.25
                                     3rd Qu.: 123325
                                                       3rd Qu.: 31312
## Max.
         :168.00
                                     Max.
                                            :2185000
                                                      Max.
                                                             :5889000
                                         pop2022
##
      reserves
                        total
## Min.
                0
                                 200
                                                   99.4
                    Min.
                                     Min.
  1st Qu.:
                0
                   1st Qu.:
                               14412
                                      1st Qu.:
                                                 4300.1
## Median :
              40
                   Median :
                               57450 Median: 11181.0
## Mean : 149421
                    Mean : 413119
                                      Mean
                                               47131.5
##
   3rd Qu.: 52700
                    3rd Qu.: 252125
                                      3rd Qu.: 34543.4
## Max. :5000000
                    Max. :10522000
                                      Max. :1448471.4
```

#descriptive statastics

```
mean(data$activeDuty)
```

[1] 119932

```
sd(data$pop2022)
```

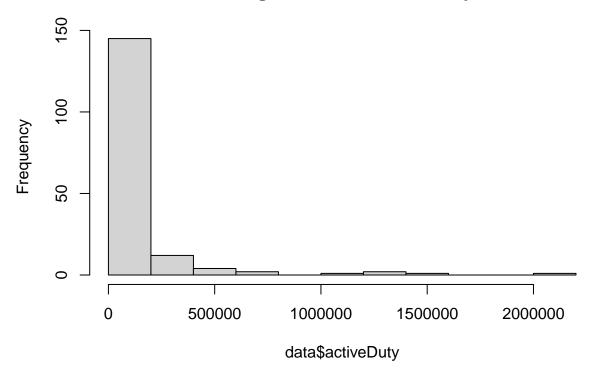
[1] 160175.3

```
Countryvariance = sd(data$reserves)*sd(data$reserves)
Countryvariance
```

[1] 275041543933

histogram

Histogram of data\$activeDuty



#scatterplot

```
x = data$activeDuty
y = data$Paramiltary

plot(x,y, main = "Active Duty and Paramiltary", xlab= "Activeduty", ylab = "Paramiltary")
```

Active Duty and Paramiltary

