> data=read.csv("D:/Production.csv")

> data=read.csv("D:/Production.csv")

>

>

>#Mean

> mean = mean(data$Production)

> cat("The mean value of Production is ",mean)

The mean value of Production is 1481619>

> #Median

> median = median(data$Production)

> cat("The median value of Production is ",median)

The median value of Production is 843> #Mode

> getmode <- function(v) {

+ uniqv <- unique(v)

+ uniqv[which.max(tabulate(match(v, uniqv)))]

+ }

>#Mode

> mode = getmode(data$Production)

> cat("The Mode value of Production is ",mode)

The Mode value of Production is 1>

>#Standard Deviation

> standard\_deviation = sd(data$Production)

> cat("The standard deviation value of Production is ",standard\_deviation)

The standard deviation value of Production is 8493918>

> #Variance

> variance = var(data$Production)

> cat("The variance value of Production is ",variance)

The variance value of Production is 7.214665e+13>

>#Skewness

> numerator = 3\*(mean-median)

> value = numerator/standard\_deviation

> cat("The skewness value is ",value)

The skewness value is 0.5230011>

> #Mean Deviation

> mean = mean(data$Production)

> column = data$Production - mean

> mean\_dev = mean(column)

> cat("The mean deviation value of Production is ",mean\_dev)

The mean deviation value of Production is -1.367919e-10>

>#Geometric Mean:

> geo\_mean <- function(data) {

+ log\_data <- log(data)

+ gm <- exp(mean(log\_data[is.finite(log\_data)]))

+ return(gm)

+ }

> geometric\_mean = geo\_mean(data$Production)

> cat("The Geometric Mean value of Production is ",geometric\_mean)

The Geometric Mean value of Production is 991.3399>

>#Range

> range\_value = range(data$Production)

> cat("The Range value of Production is ",range\_value)

The Range value of Production is 0.1 71300000>

>#nth Percentile

> Production = data$Production

> percentile = quantile(Production, c(.32, .57, .98))

> cat("The percentile value of Production is ",percentile)

The percentile value of Production is 200 1310.6 26666800>

> #First and Second Quartile

> first = quantile(data$Production,0.25)

> second = quantile(data$Production,0.5)

> cat("The First and Second Quartile values are ",first,second)

The First and Second Quartile values are 100 843>

>#Quartile Deviation

> first = quantile(data$Production,0.25)

> third = quantile(data$Production,0.75)

>

> Quartile\_Deviation= (third-first)/2

> cat("The Quartile Deviation value of Production is ",Quartile\_Deviation)

The Quartile Deviation value of Production is 5062.782>

> #Any two deciles

> first = quantile(data$Production,0.1)

> second = quantile(data$Production,0.2)

> cat("The two deciles value of Production is ",first,second)

The two deciles value of Production is 12.812 54>

>#Sum of column values

> sum = sum(data$Production)

> cat("The sum of values of Production column is ",sum)

The sum of values of Production column is 739327971>

>#Minimum of column values

> Minimum = min(data$Production)

> cat("The Minimum values of Production column is ",Minimum)

The Minimum values of Production column is 0.1>

>#Maximum of column values

> Maximum = max(data$Production)

> cat("The Maximum values of Production column is ",Maximum)

The Maximum values of Production column is 71300000>

>#Harmonic Mean

> col = data$Production

> sum=0

> for(i in col){

+ val = (1/i)

+ sum = sum + val

+ }

> numerator = length(data$Production)

> harmonic\_mean = (numerator/sum)

> cat("The harmonic mean is ",harmonic\_mean)

The harmonic mean is 9.189438>