#To read a csv file

data=read.csv("D:/cricket\_dataset.csv")

#Mean

mean = mean(data$Matches)

cat("The mean value of Matches is ",mean)

#Median

median = median(data$Matches)

cat("The median value of Matches is ",median)

#Mode

getmode <- function(v) {

uniqv <- unique(v)

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

}

mode = getmode(data$Matches)

cat("The Mode value of Matches is ",mode)

#Standard Deviation

standard\_deviation = sd(data$Matches)

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

#Variance

variance = var(data$Matches)

cat("The variance value of Matches is ",variance)

#skewness

numerator = 3\*(mean-median)

value = numerator/standard\_deviation

cat("The skewness value is ",value)

#Mean Deviation

mean = mean(data$Matches)

column = data$Matches - mean

mean\_dev = mean(column)

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

#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$Matches)

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

#Range

range\_value = range(data$Matches)

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

#nth Percentile

Matches = data$Matches

percentile = quantile(Matches, c(.32, .57, .98))

cat("The percentile value of Matches is ",percentile)

#First and Second Quartile

first = quantile(data$Matches,0.25)

second = quantile(data$Matches,0.5)

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

#Quartile Deviation

first = quantile(data$Matches,0.25)

third = quantile(data$Matches,0.75)

Quartile\_Deviation= (third-first)/2

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

#Any two deciles

first = quantile(data$Matches,0.1)

second = quantile(data$Matches,0.2)

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

#sum of column values

sum = sum(data$Matches)

cat("The sum of values of Matches column is ",sum)

#Minimum of column values

Minimum = min(data$Matches)

cat("The Minimum values of Matches column is ",Minimum)

#Maximum of column values

Maximum = max(data$Matches)

cat("The Maximum values of Matches column is ",Maximum)

#Harmonic Mean

col = data$Matches

sum=0

for(i in col){

val = (1/i)

sum = sum + val

}

numerator = length(data$Matches)

harmonic\_mean = (numerator/sum)

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