#import data set

DataSet<-read.csv(file = "C:/Users/megan/Downloads/Data Set.csv")

View(DataSet)

#variable names

variable.names(DataSet)

#data set structure

str(DataSet)

is.numeric(DataSet)

is.character(DataSet)

class(DataSet)

sapply(DataSet, class)

#mean

mean(DataSet$TOTRATE,na.rm = T)

mean(DataSet$EVANCNG,na.rm = T)

mean(DataSet$EVANADH,na.rm = T)

mean(DataSet$EVANRATE,na.rm = T)

mean(DataSet$BPRTCNG,na.rm = T)

#median

median(DataSet$TOTCNG,na.rm = T)

median(DataSet$TOTADH,na.rm = T)

median(DataSet$BPRTCNG,na.rm = T)

median(DataSet$EVANRATE,na.rm = T)

median(DataSet$EVANADH,na.rm = T)

#mode

new1<-table(as.vector(DataSet$TOTCNG))

names(new1[new1==max(new1)])

new2<-table(as.vector(DataSet$TOTADH))

names(new2[new2==max(new2)])

new3<-table(as.vector(DataSet$TOTRATE))

names(new3[new3==max(new3)])

new4<-table(as.vector(DataSet$EVANCNG))

names(new4[new4==max(new4)])

new5<-table(as.vector(DataSet$EVANADH))

names(new5[new5==max(new5)])

#variance

var(DataSet$TOTCNG,na.rm = T)

#range

range(DataSet$TOTCNG,na.rm = T)

#standard deviation

sd(DataSet$TOTCNG,na.rm = T)

#histogram

hist(DataSet$TOTCNG)

#box plot

boxplot(DataSet$TOTCNG)