##1. Open the data frame in iris {datasets}. Use the help to know about this data. In which units are measured the length and width of sepals and petals? How many variables and observations are there in iris?

?iris

iris <- iris

## 5 variables and 150 observations

##2. Create a vector with the species names. Remember that genus should be with capital letters and species in small letters (e.g. Iris setosa)

Sp <- Spe <- character()

Va <- character()

Me <- numeric()

Se <- numeric()

for (i in levels(iris$Species)) {

for (j in names(iris)[-5]) {

Sp <- c(Sp, paste("Iris", i))

Spe <- c(Spe, i)

Va <- c(Va, j)

x <- iris[iris$Species == i, j]

Me <- c(Me, mean(x))

Se <- c(Se, sd(x)/sqrt(length(x)))

}

}

x

## Median

md <- numeric()

for (i in levels(iris$Species)) {

for (j in names(iris)[-5]) {

x <- iris[iris$Species == i,j]

md <- c(md, median(x))

}

}

## Minimum values

mini <- numeric()

for (i in levels(iris$Species)) {

for (j in names(iris)[-5]) {

x <- iris[iris$Species == i,j]

mini <- c(mini, min(x))

}

}

#Maximum values

maxi <- numeric()

for (i in levels(iris$Species)) {

for (j in names(iris)[-5]) {

x <- iris[iris$Species == i,j]

maxi <- c(maxi, max(x))

}

}