#clustering method1

irisData<-iris[,1:4]

totalwSS<-c()

#for method1 kmean clustering for 15 time in a loop

for(i in 1:15)

{

    clusterIRIS<-kmeans(irisData,centers=i)

    totalwSS[i]<-clusterIRIS$tot.withinss

}

plot(x=1:15,y=totalwSS,type="b",xlab="Number of Clusters",ylab="Within groups sum-of-squares")

#method2

library(NbClust)

#set margin as:

par(mar=c(2,2,2,2))

nb<-NbClust(irisData,method="kmeans")

hist(nb$Best.nc[1,], breaks=15,main="Histogram for number of cluster")

