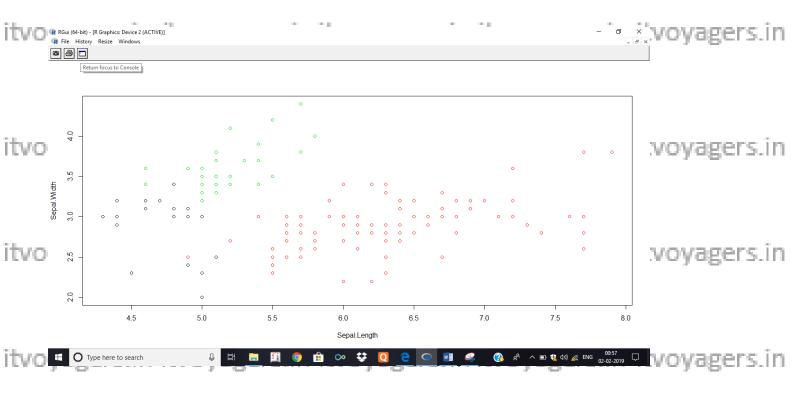
itvoyagers.in itvoyagers.in it**practicas.i**n itvoyagers.in itvoyagers.in Perform the data clustering using clustering algorithm. k-means clustering using R #apply K means to iris and store result itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in newiris <- iris newiris\$Species <- NULL (kc <- kmeans(newiris,3)) TWO K-means clustering with 3 clusters of sizes 21, 96, 33 Cluster means: Sepal.Length Sepal.Width Petal.Length Petal.Width 4.738095 2.904762 1.790476 0.3523810 6.314583 2.895833 4.973958 1.7031250 1.472727 0.2727273 3.624242 5.175758 itvo :voyagers.in Clustering vector: Within cluster sum of squares by cluster: :voyagers.in [1] 17.669524 118.651875 6.432121 (between SS / total SS = 79.0 %) Available components: [1] "cluster" "centers" "tot.withinss" "totss" "withinss" [6] "betweenss" "size" "iter" "ifault" ITVO #Compare the Species label with the clustering resultagers. In itvoyagers. In table(iris\$Species,kc\$cluster) 17 0 33 setosa rs.in itvovagers.in itvovagers.in itvovagers.in itvoversicolor 4 46 0 virginica 0 50 0 **#Plot the clusters and their centers** plot(newiris[c("Sepal.Length","Sepal.Width")],col=kc\$cluster) points(kc\$centers[,c("Sepal.Length", "Sepal.Width")],col=1:3,pch=8,cex=2) dev.off()

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itvo#Blot-theiclusters and their centre vagers. in itvoyagers.in itvoyagers.in

plot(newiris[c("Sepal.Length","Sepal.Width")],col=kc\$cluster)



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