Assignment 8 (3)

33140 (Sahil Naphade)

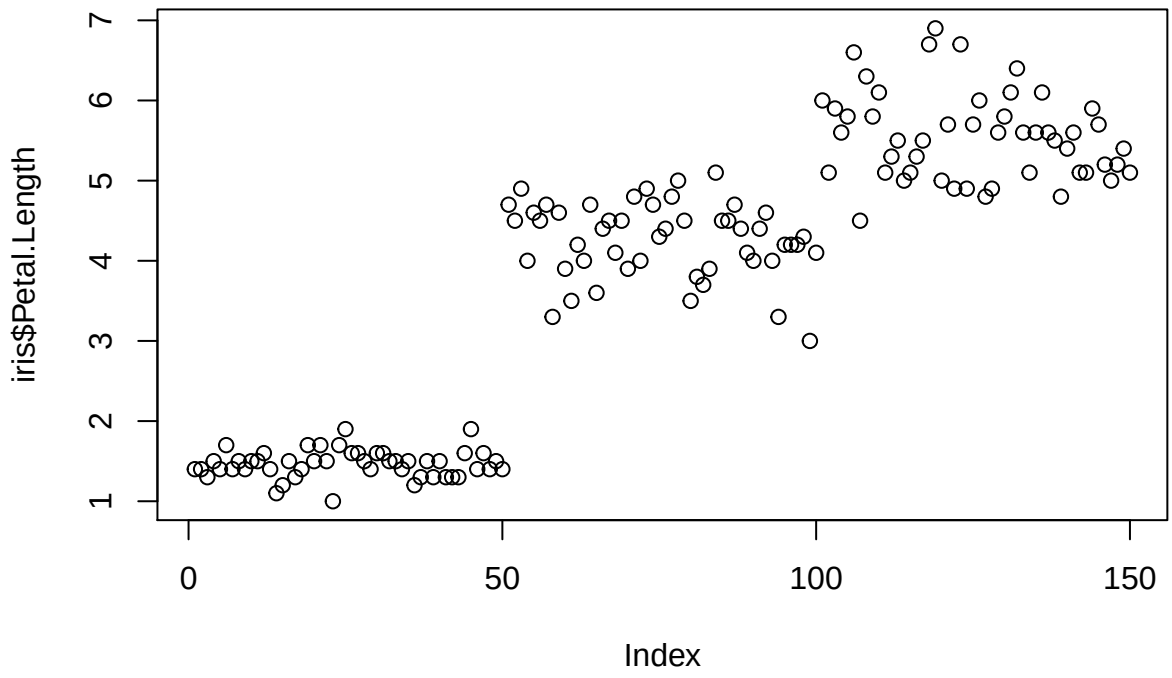
16/04/2020

Reading the Iris dataset file and giving the header names Plot the scatter graph of petal length

```
wd = getwd()
setwd(wd)

iris=read.csv("../../Sl-VI DataSets/Iris/Iris.csv",header = F, sep = ',')
head(iris)
```

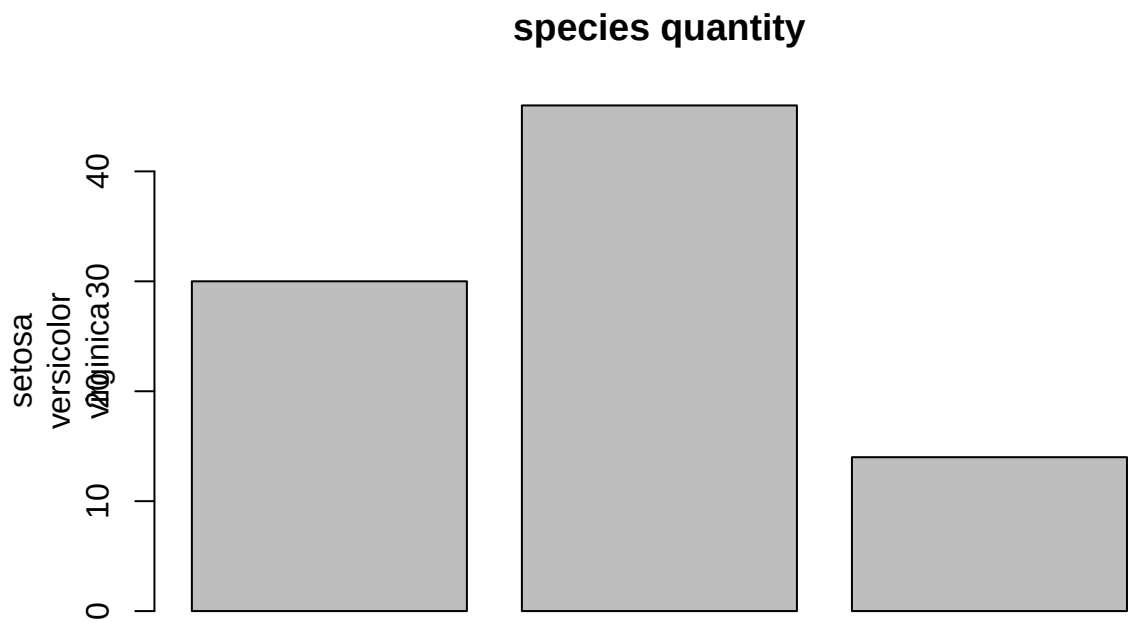
```
##    V1  V2  V3  V4          V5
## 1 5.1 3.5 1.4 0.2 Iris-setosa
## 2 4.9 3.0 1.4 0.2 Iris-setosa
## 3 4.7 3.2 1.3 0.2 Iris-setosa
## 4 4.6 3.1 1.5 0.2 Iris-setosa
## 5 5.0 3.6 1.4 0.2 Iris-setosa
## 6 5.4 3.9 1.7 0.4 Iris-setosa
```

```
names(iris) <- c('Sepal.Length',"Sepal.Width","Petal.Length","Petal.Width","Class")

plot(iris$Petal.Length)
```

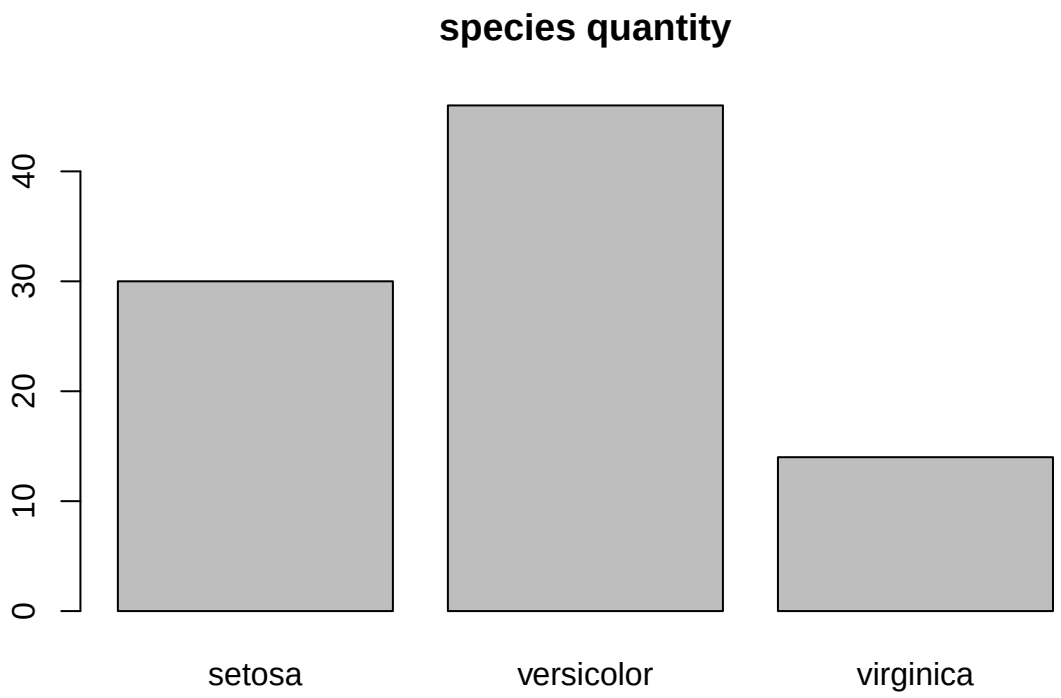


Plot bar graph of numbr of records vs. class

```
#BAR CHARTS

barplot(c(30,46,14),ylab = c("setosa","versicolor","virginica"), main = "species quantity" )
```

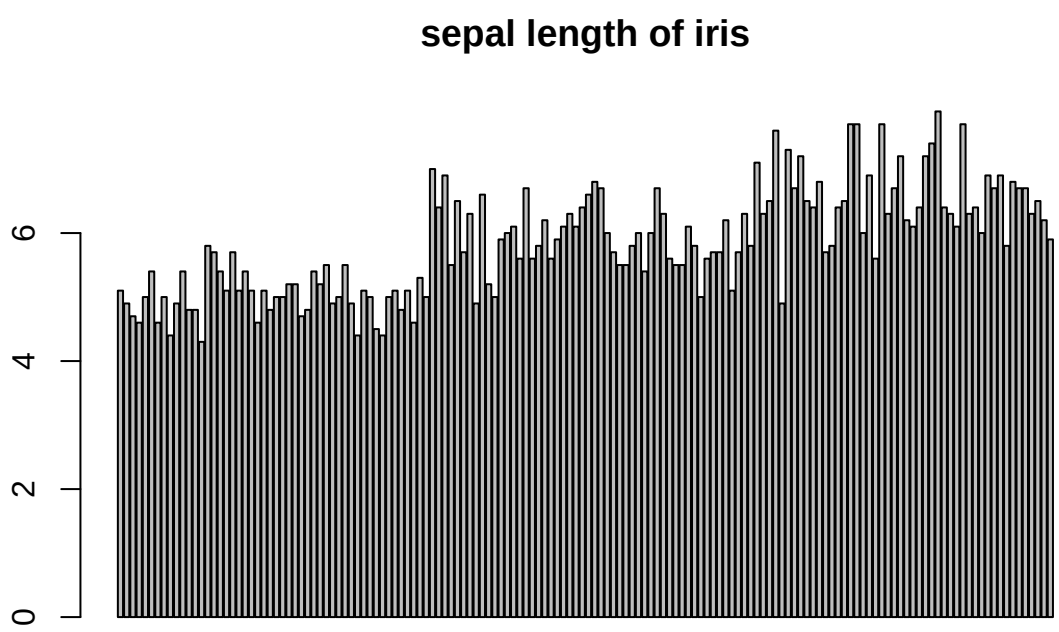



```
barplot(c(30,46,14), main = "species quantity",names.arg = c("setosa","versicolor","virginica") )
```



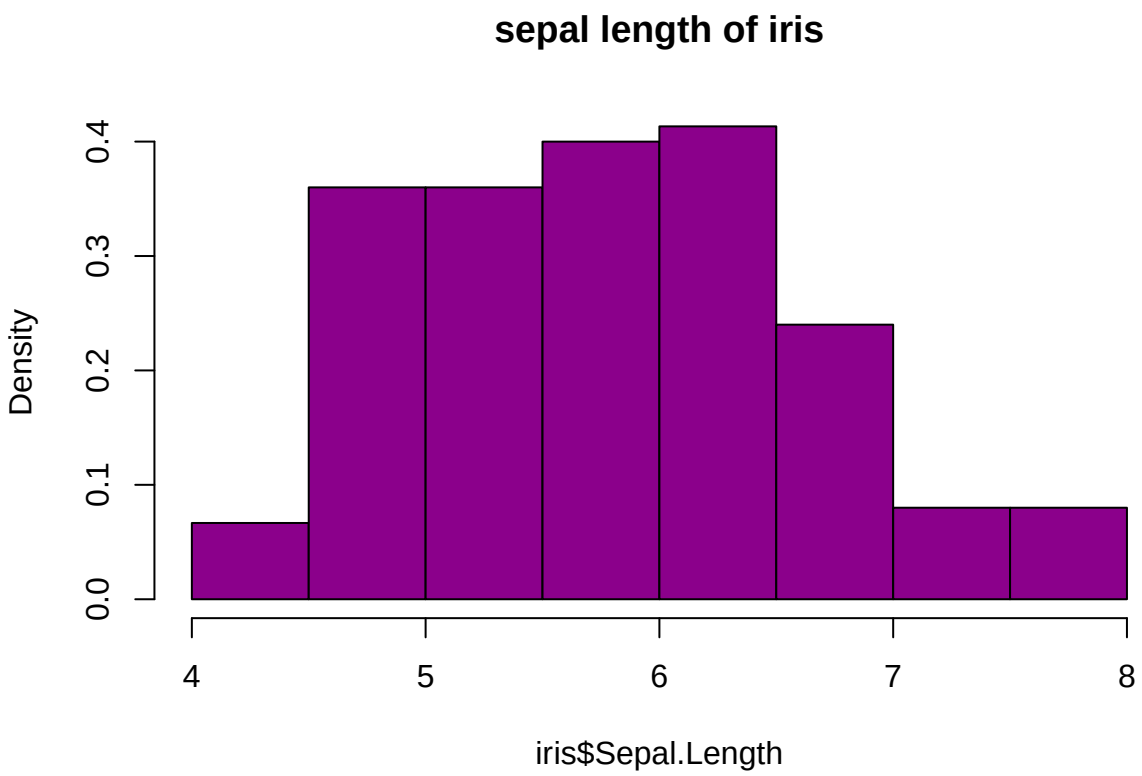
Sepal length bar graph

```
barplot(iris$Sepal.Length, main = "sepal length of iris" )
```



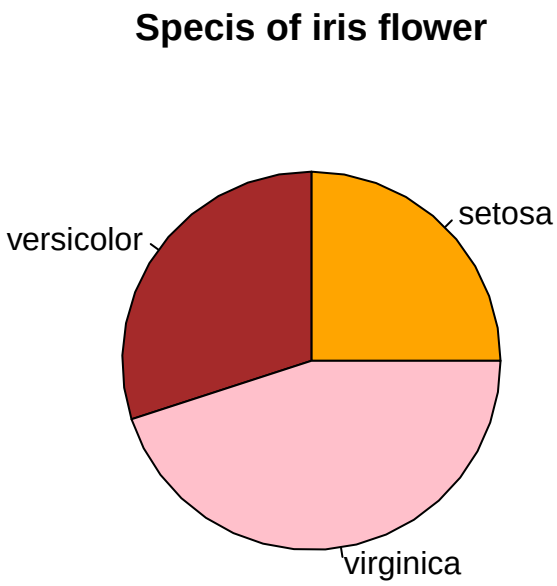
Sepal length histogram

```
hist(iris$Sepal.Length,main = "sepal length of iris",col="darkmagenta",freq=FALSE)
```



Pie chart of total records

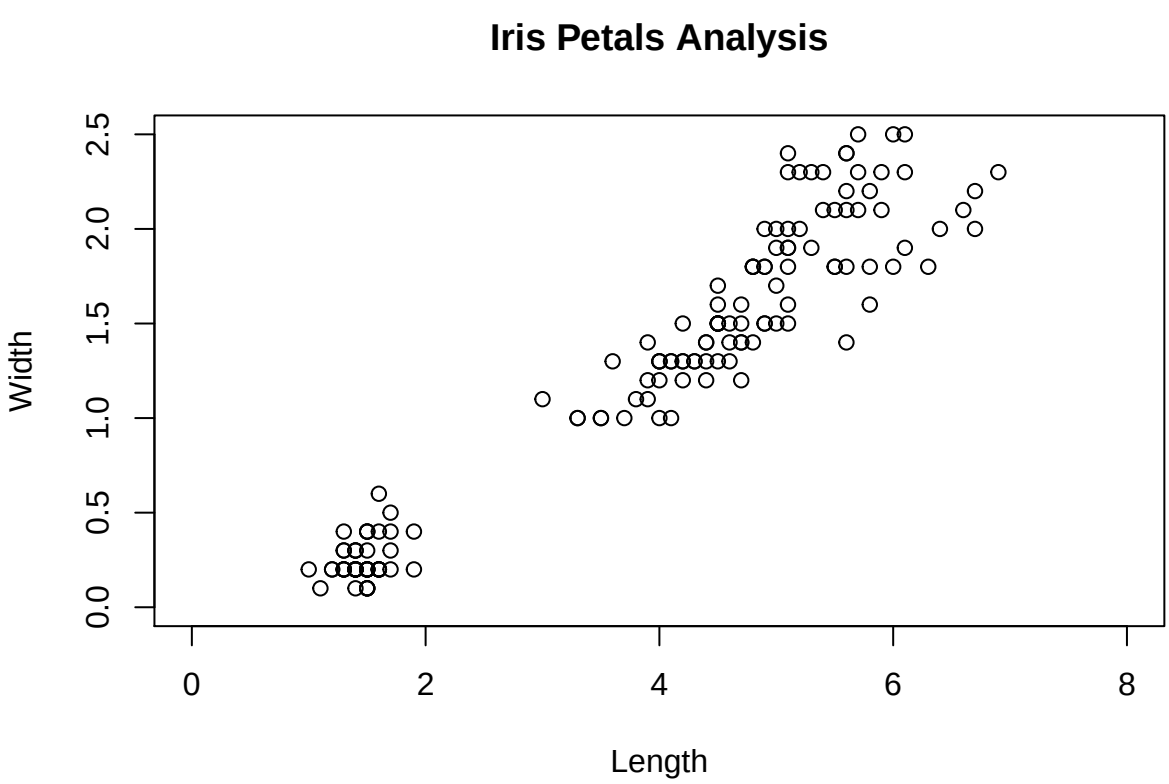
```
#PIE CHART
x<-c(25,30,45)
label<-c("setosa","versicolor","virginica")
radius<-40
color<-c("orange","brown","pink")
pie(x,label,40,main = "Specis of iris flower",col = color,clockwise = FALSE)
```



Printing summary

```
y<-c(summary(iris$Species))
color<-c("orange","blue","pink")
```

```
#scatterplot
plot(iris$Petal.Length,iris$Petal.Width,main = "Iris Petals Analysis",xlab = "Length",ylab = "Width",xl
```


Iris Petals Analysis
Width
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
Length