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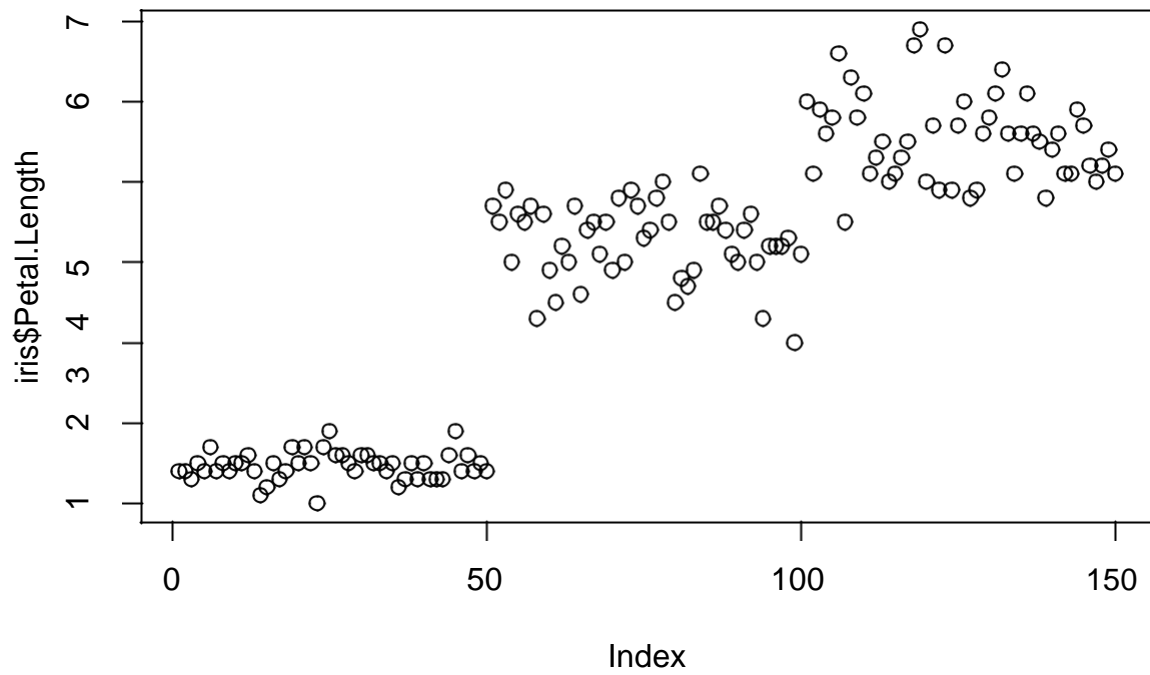
#Problem Statement: Visualize the data using R/Python.

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

```
iris=read.csv(file.choose(),header = F, sep = ',')  
head(iris)
```

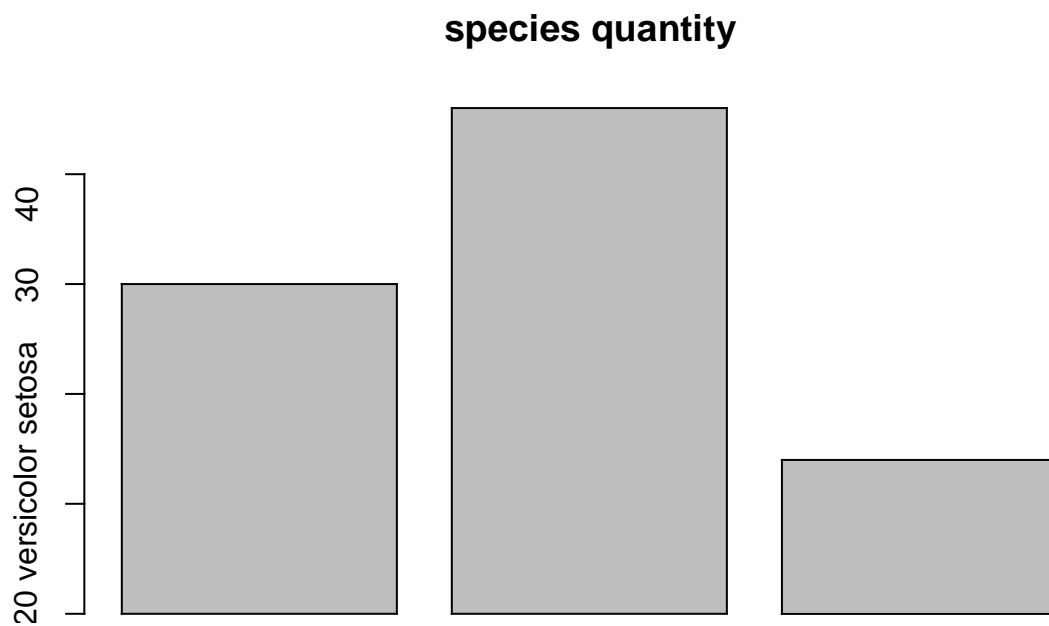
```
##      V1  V2  V3  V4  V5  
## 1 5.1 3.5 1.4 0.2 Iris-setosa  
## 2 4.9 3.0 1.4 0.2 Iris-setosa  
## 3 4.7 3.2 1.3 0.2 Iris-setosa  
## 4 4.6 3.1 1.5 0.2 Iris-setosa  
## 5 5.0 3.6 1.4 0.2 Iris-setosa  
## 6 5.4 3.9 1.7 0.4 Iris-setosa
```

```
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

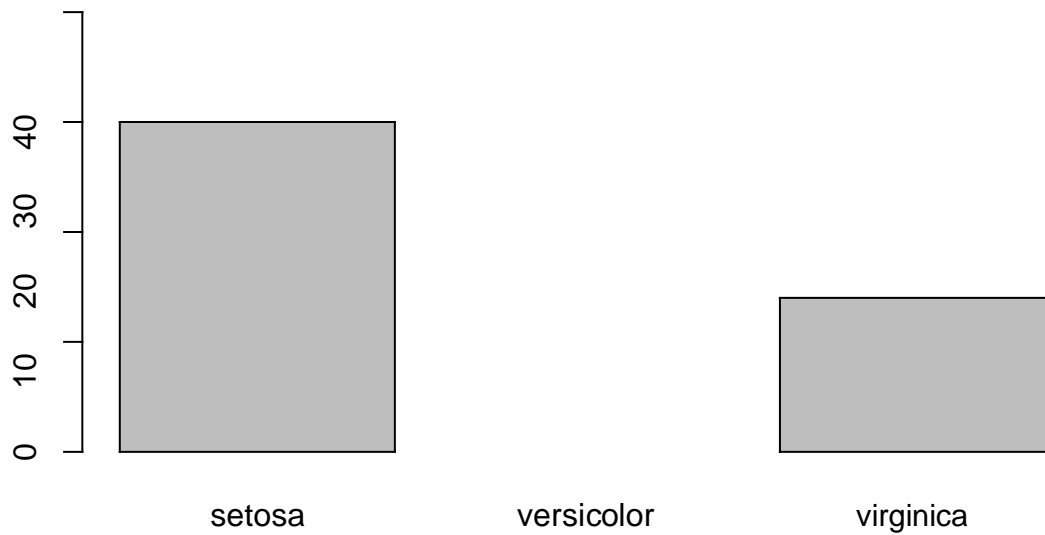
```
barplot(c(30,46,14),ylab = c("setosa","versicolor","virginica"),xlab = "species quantity" , main = "species quantity" )
```



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

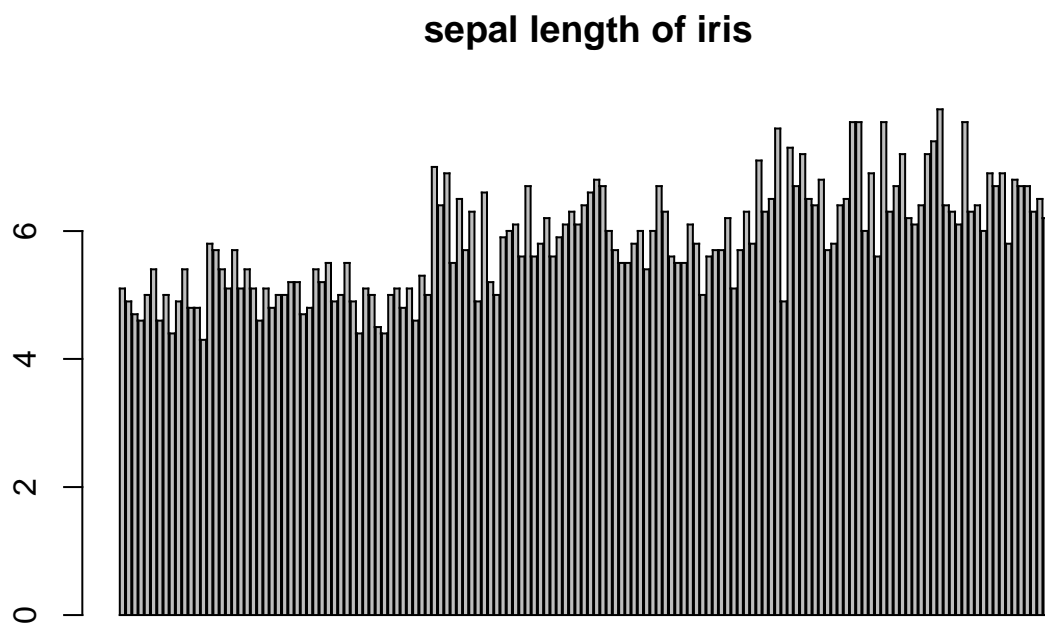
species quantity





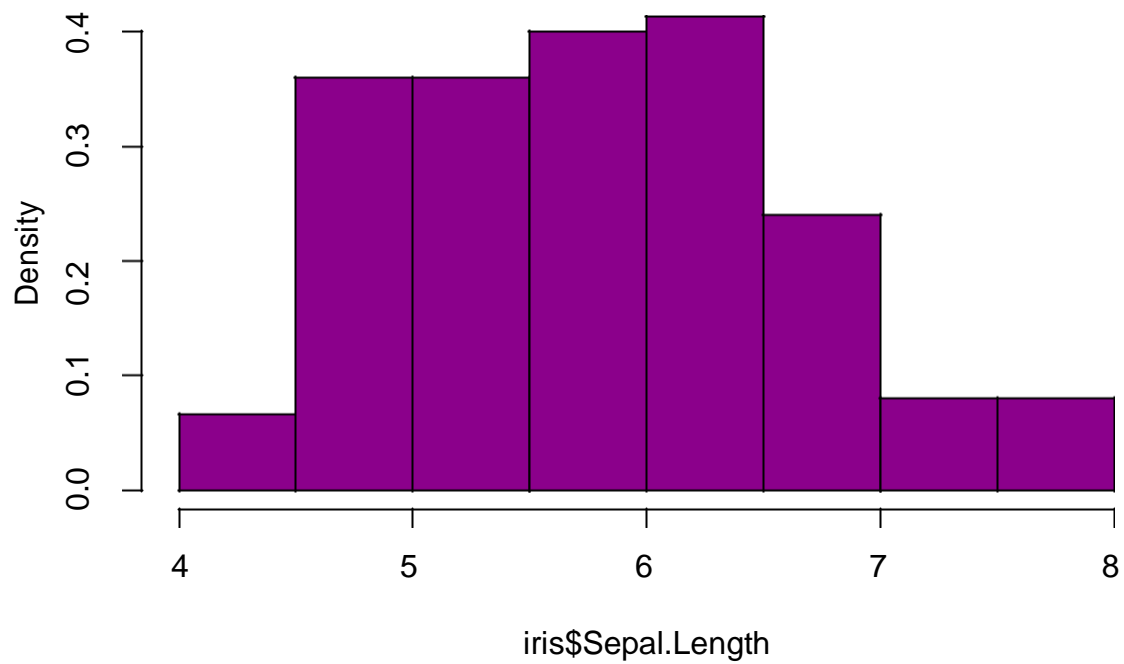
Sepal length bar graph

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



Sepal length histogram

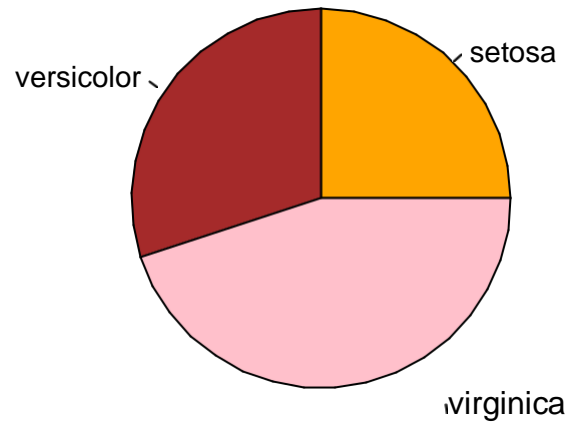
```
hist(iris$Sepal.Length,main = "sepal length of iris",col="darkmagenta",freq=FALSE)
```



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)
```

Specis of iris flower



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",xlim = c(0,8),ylim =  
c(0,2.5),axes = TRUE,col=1)
```

Iris Petals Analysis

