second assignment

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> I learnt how to create bar chart for a single variable. To create tables and make my bars arranged in order of increasing and ascending and also assigning colors to the bars. Making the bars arranged either horizontally and vertically.
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> I learnt how to create pie charts for a single variable. To create tables and using it in creating pie chart. Our pie chart can be modified and editing to our choice of preference by assigning colors and many other editing.
>
> I learnt how to create histograms for quantitative variables. Histogram can also be modified and edited like the other charts. The histogram can also be colored to our choice using the inbuilt color or external colors, we can add a curve to our histogram.
>
> I learnt how to create box plots for quantitative variables. Box plots can be used to show outliers. We have different types of box plots. Box plots can also be edited and modified to our choice. I learnt how to compare variables.
>
> I learnt how to overlay plot, creating the structures of some variables. We have to first create a chart, (e.g) histogram the editing the charts and adding colors, a curve, kennel density and rug plot.
>
> I learnt how to save my chart either using image or using pdf by using the export function copy or by saving using the coding method, which I find hard but it looks more professional.

```
str(iris)
```

```
## 'data.frame':    150 obs. of  5 variables:
##  $ Sepal.Length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
##  $ Sepal.Width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
##  $ Petal.Length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
##  $ Petal.Width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
##  $ Species     : Factor w/ 3 levels "setosa","versicolor",..: 1 1 1 1 1 1 1 1 1 1 ...
```

```
data(iris)
petal.length<-iris$Petal.Length


###histogram of petal.length
hist(petal.length,prob=TRUE)



###kernel density lines
lines(density(petal.length),col="red")

###rug/line plot
rug(petal.length,col = "red")
```

Histogram of petal.length