

ms3

## Installing dplyr and plotrix Package

~~installing dplyr~~

```
install.packages("dplyr")
```

```
install.packages("plotrix")
```

Setting of Working Directory

```
setwd("D:/vishal")
```

Using library

```
library(dplyr)
```

```
library(plotrix)
```

Reading of .csv file

```
getdata <- read.csv("stacks.csv")
```

```
getdata
```

```
summary(getdata)
```

# Piechart

```
x <- c(6,56400000, 66100000, 68451020, 78300000,  
142800000)
```

```
y <- c("Bread-sell", "Asian paints", "ICI", "TCS",  
"Cipla", "SB")
```

```
png(file="barchart.png")
```

```
barplot(x)
```

```
dev.off()
```

```

L <- c(getdata & low)
H <- c(getdata & High)
png(file = "line-chart-2-line.jpg")
lines(H, type = "o", col = "blue")
dev.off()

```

#### Q4 Some Descriptive ~~set~~ Statistics

# Minimum

```
min(getdata & Volume)
```

# maximum

```
max(getdata & Volume)
```

# mean

```
mean(getdata & Volume)
```

# Quantile

```
quantile(getdata & Volume)
```

```
quantile(getdata & Volume, 0.25)
```

```
quantile(getdata & Volume, 0.75)
```

```
Var(getdata & Volume)
```

# Summary

```
Summary(getdata)
```

## Plotting the graphs from stocks.csv

### Installing dplyr and plotrix package

```
install.packages("dplyr")
```

```
install.packages("plotrix")
```

### Setting of Working Directory

```
setwd("D:/vishal")
```

### Using library

```
library(dplyr)
```

```
library(plotrix)
```

### Reading of .csv file

```
getdata<-read.csv("stocks.csv")
```

```
getdata
```

```
summary(getdata)
```

### #PieChart

```
x<-c(0,56400000,66100000,68451020,78300000,142800000)
```

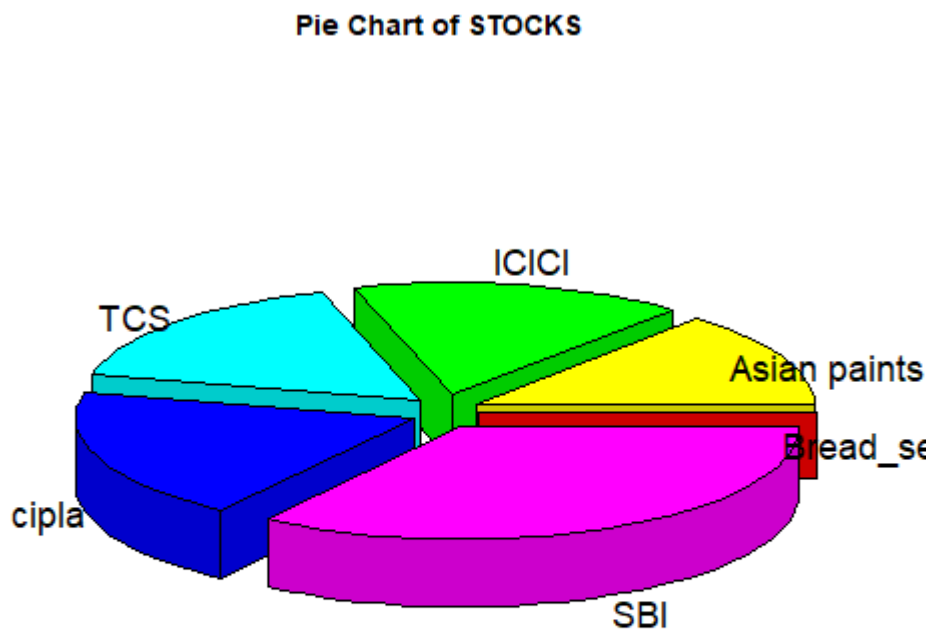
```
y<-c("Bread_sell","Asian paints","ICICI","TCS","cipla","SBI")
```

```
png(file = "3d_pie_chart.png")
```

```
pie3D(x,labels = y,explode = 0.1, main = "Pie Chart of STOCKS ")
```

```
dev.off()
```

#here we have created the pie chart of stocks and compare the values of  
#different stocks



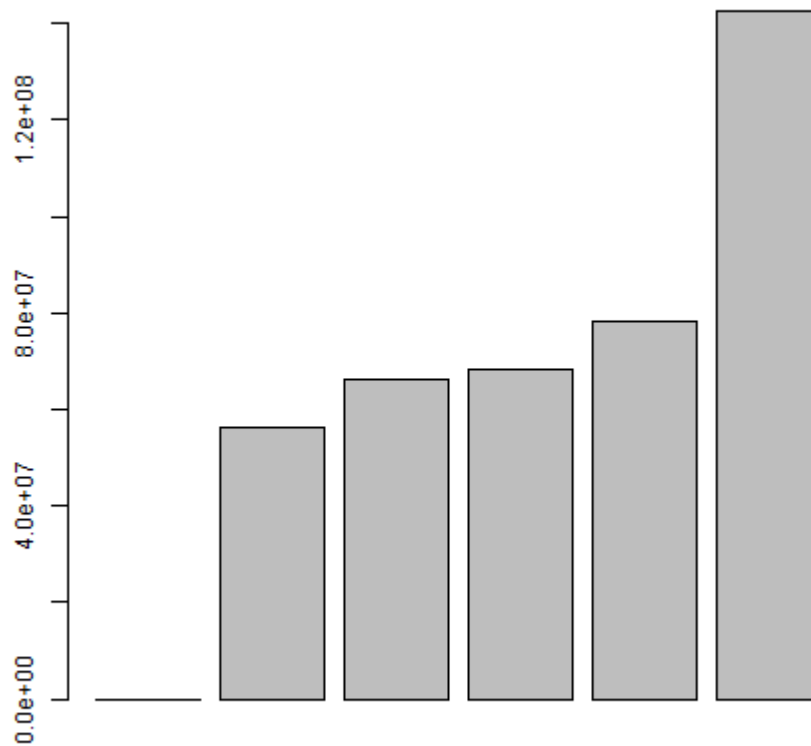
### #BarChart

```
x<-c(0,56400000,66100000,68451020,78300000,142800000)
```

```
png(file = "barchart.png")
```

```
barplot(x)
```

```
dev.off()
```



### **#BoxPlot**

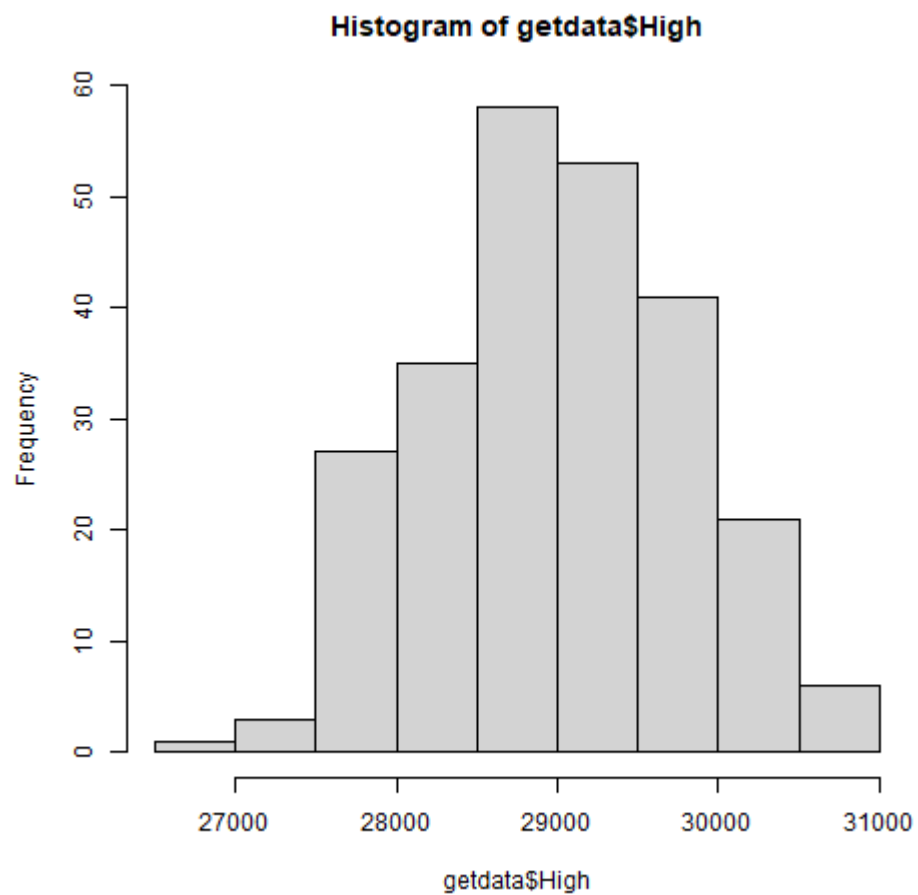
?boxplot

```
x<-c(0,56400000,66100000,68451020,78300000,142800000)
```

```
png(file = "boxplot.png")
```

```
boxplot(High ~ Low, data = getdata, xlab = " High", ylab = "Low", main = " Data")
```

```
input <- stocks[,c('high','low')]
```



**#Histogram**

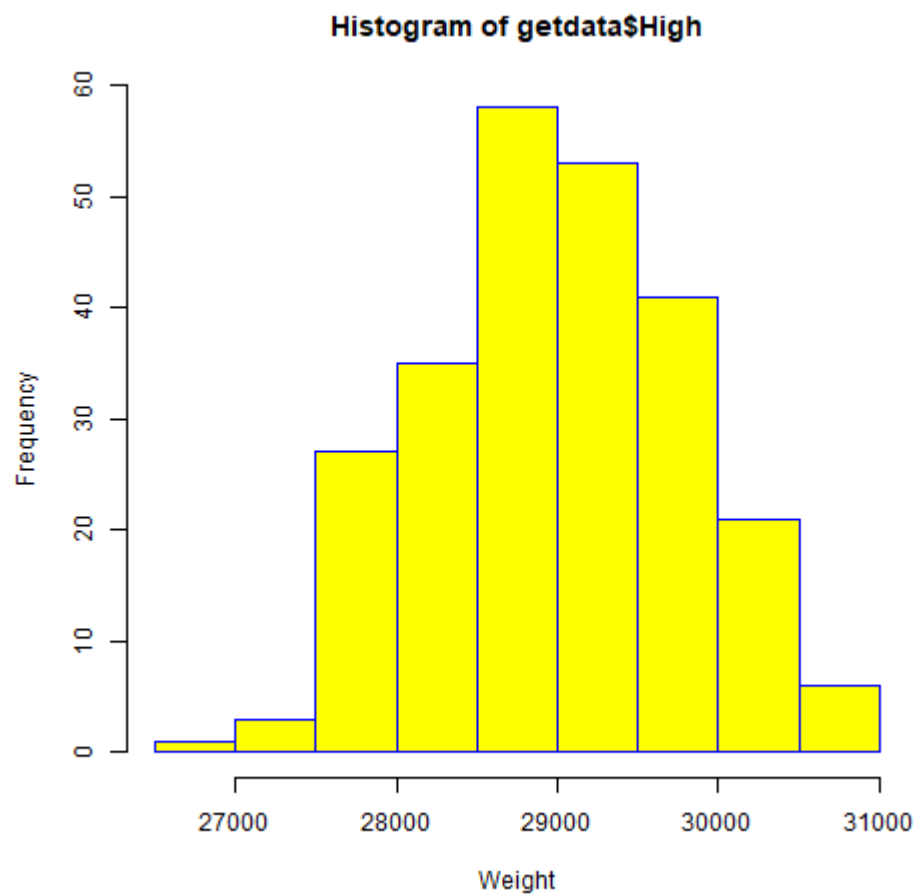
```
hist(getdata$High)
```

```
getdata$High
```

```
png(file = "histogram.png")
```

```
hist(getdata$High,xlab = "Weight",col = "yellow",border = "blue")
```

```
dev.off()
```



```
hist(getdata$Low)
getdata$Low
png(file = "histogram1.png")
hist(getdata$High,xlab = "Weight",col = "green",border = "blue")
dev.off()
#creating histogram of high and low
```

### #LineChart

```
L<-c(getdata$Low)
```

```
L
```

```
H<-c(getdata$High)
```

```
H
```

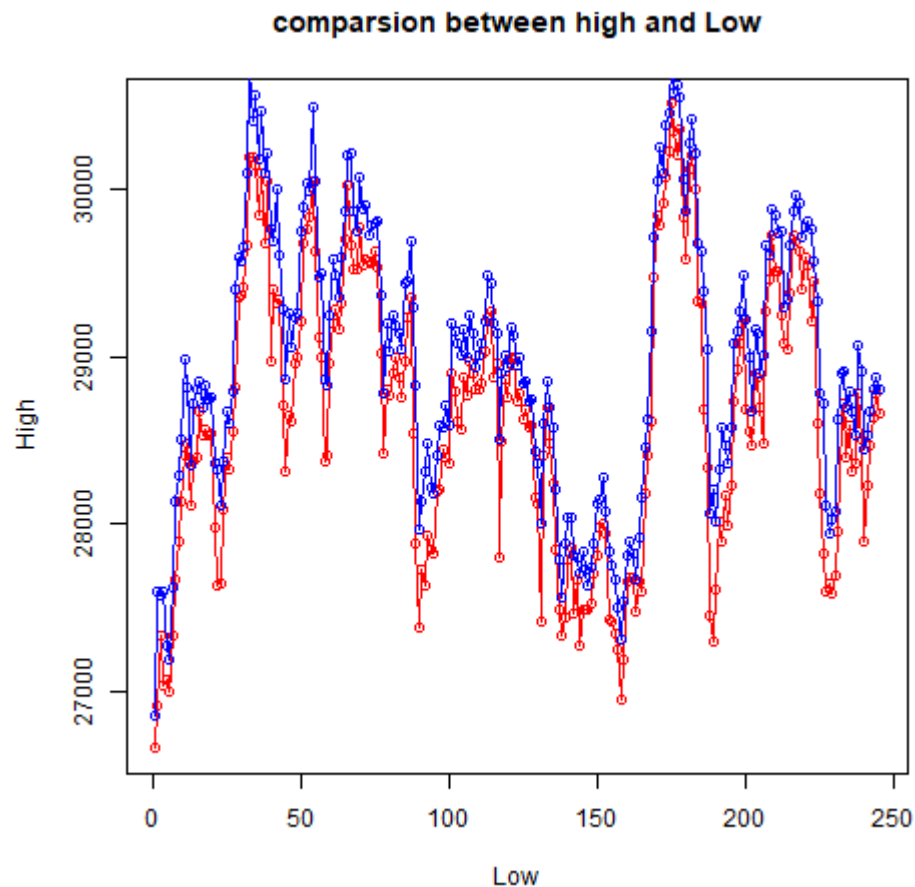
```
png(file = "line_chart_2_lines.jpg")
```

```
plot(L,type = "o",col = "red", xlab = "Low", ylab = "High", main = "comparson between high and Low")
```

```
lines(H, type = "o", col = "blue")
```

```
dev.off()
```

#now by creating the line chart I am comparing higher and lower column



### #ScatterChart

```
input <- getdata[,c('High','Low')]
```

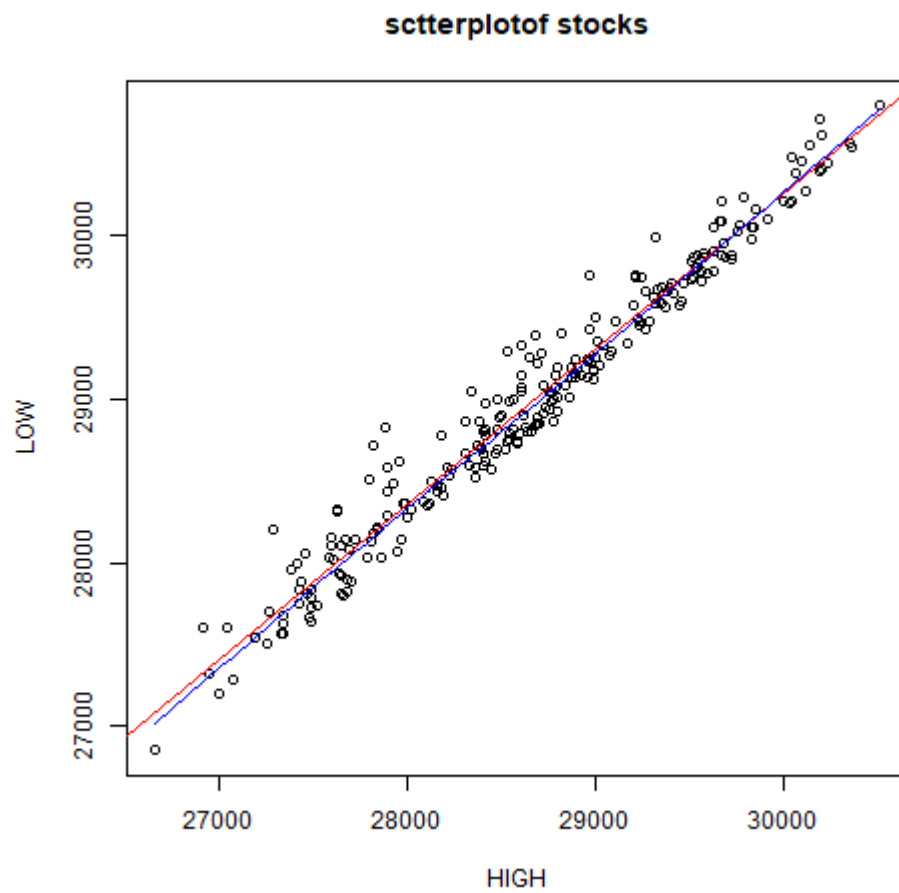
```
png(file = "scatterplot1.png")
```

```
plot(getdata$Low,getdata$High,main='sctterplotof stocks' ,xlab='HIGH',ylab='LOW')
```

```
abline(lm(getdata$High~getdata$Low), col="red") # regression line (y~x)
```

```
lines(lowess(getdata$Low,getdata$High), col="blue") # lowess line (x,y)
```

```
dev.off()
```



## *Some Quantitative Data*

```
#Minimum
min(getdata$Volume)
# Maximum
max(getdata$Volume)
# Mean
mean(getdata$Volume)
# Median
median(getdata$Volume)
# Quantile
quantile(getdata$Volume, 0.25)
quantile(getdata$Volume, 0.75)
# Standard Deviation And Variance
sd(getdata$Volume)
var(getdata$Volume)
# Summary
summary(getdata)
```



```

> min(getdata$Volume)
[1] 0
> max(getdata$ Volume)
[1] 142800000
> mean(getdata$Volume)
[1] 68451020
> median(getdata$Volume)
[1] 66100000
> quantile(getdata$Volume, 0.25)
 25%
56400000
> quantile(getdata$ Volume, 0.75)
 75%
78300000
> sd(getdata$Volume)
[1] 17547686
> var(getdata$Volume)
[1] 3.079213e+14
> summary(getdata)
      Date      Open      High      Low
Length:245    Min.   :26691    Min.   :26854    Min.   :26665
Class :character 1st Qu.:28212    1st Qu.:28435    1st Qu.:27993
Mode  :character Median :28832    Median :28991    Median :28678
              Mean  :28827    Mean  :28984    Mean   :28657
              3rd Qu.:29442    3rd Qu.:29604    3rd Qu.:29311
              Max.   :30606    Max.   :30796    Max.   :30505

      Close      Adj.Close      Volume
Min.   :26854    Min.   :26854    Min.   :      0
1st Qu.:28197    1st Qu.:28197    1st Qu.: 56400000
Median :28813    Median :28813    Median : 66100000
Mean   :28817    Mean   :28817    Mean   : 68451020
3rd Qu.:29453    3rd Qu.:29453    3rd Qu.: 78300000

```