

① install dplyr and plotrix package (a)

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

② Setwd ("D:/adaesh")

③ library(dplyr)
library(plotrix)

④ Reading of CSV file

```
getdata <- read.csv("stock.csv")  
getdata  
Summary
```

⑤ # Lilchauch

```
x <- c(5, 4, 3, 2, 1)  
y <- c("Bread", "Paint", "TCS", "Cipla", "SBI")
```

⑥ # Barchart

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

```
png(file="barchart.png")  
barplot(x)  
dev.off()
```

linechart

①

L ← C(getdata & low)

L

H ← C(getdata & High)

png(file = "line-chart-2-line.jpg")

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

dev.off()

Q.4. some Quantitative data

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:/adarsh")
```

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)
```

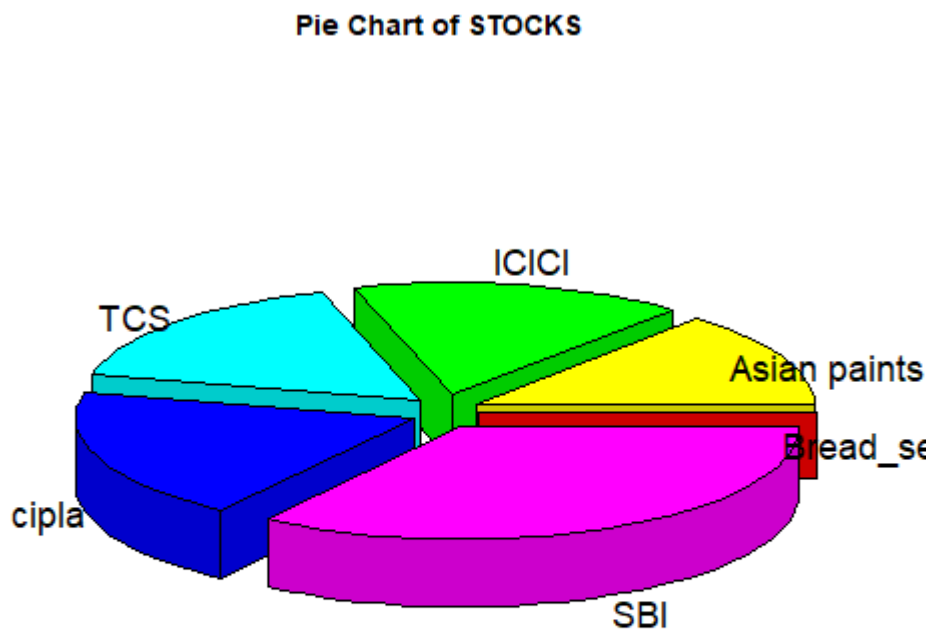
```
y<-c("Bread_sell","Asian paints","ICICI","TCS","cipla","SBI")
```

```
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



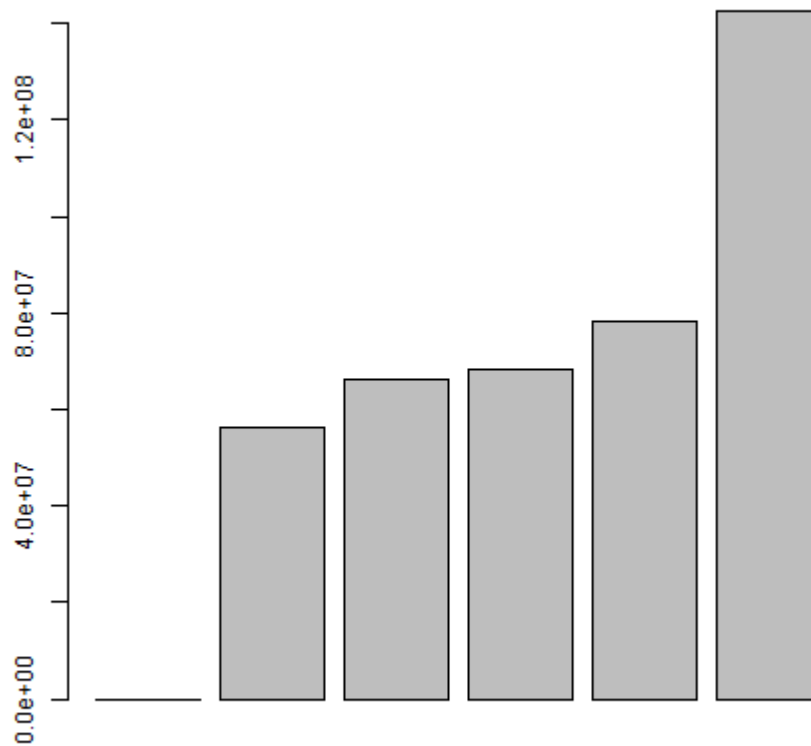
#BarChart

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

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

```
barplot(x)
```

```
dev.off()
```



#BoxPlot

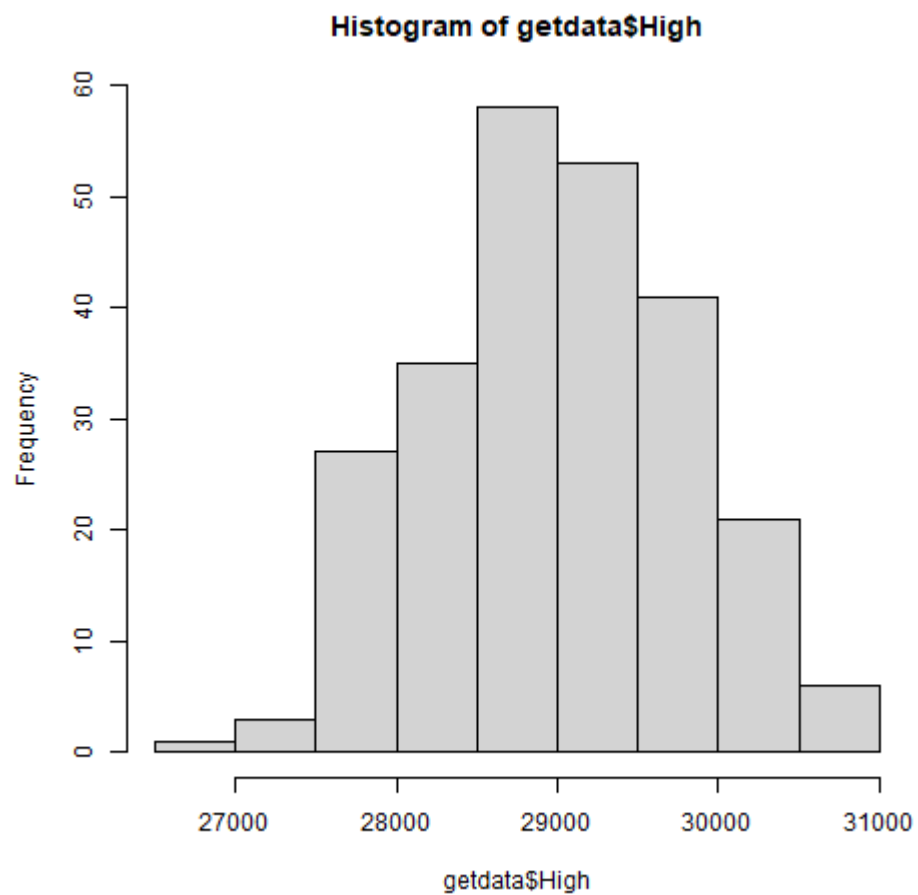
?boxplot

```
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

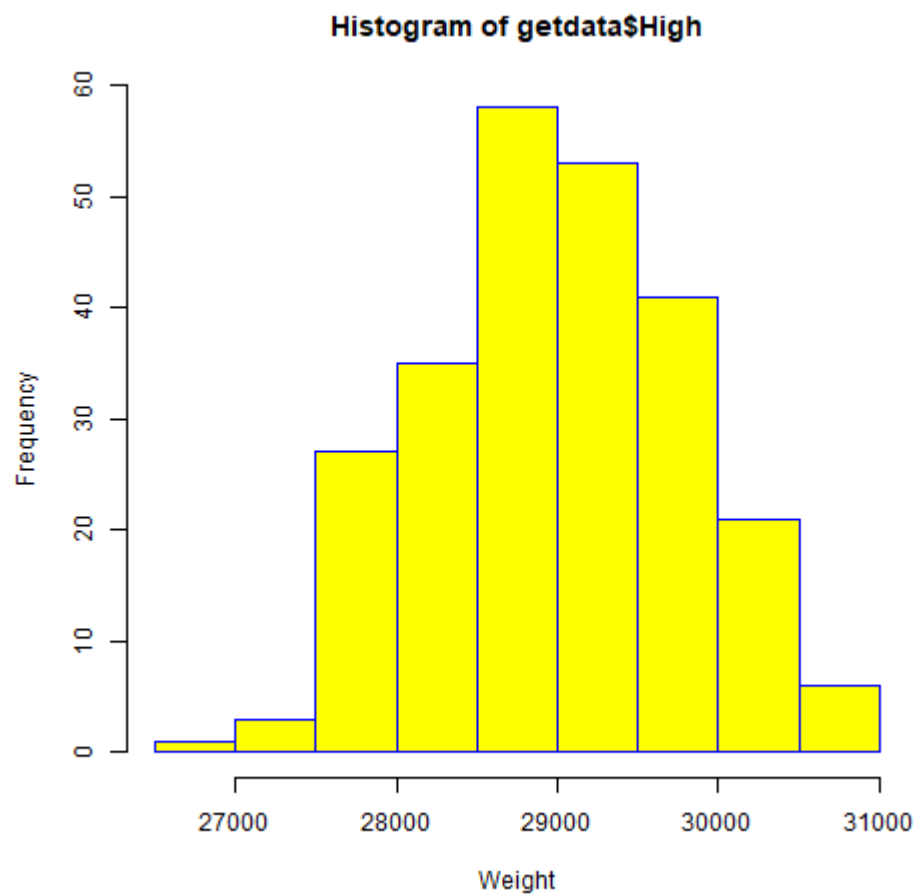
```
hist(getdata$High)
```

```
getdata$High
```

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

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

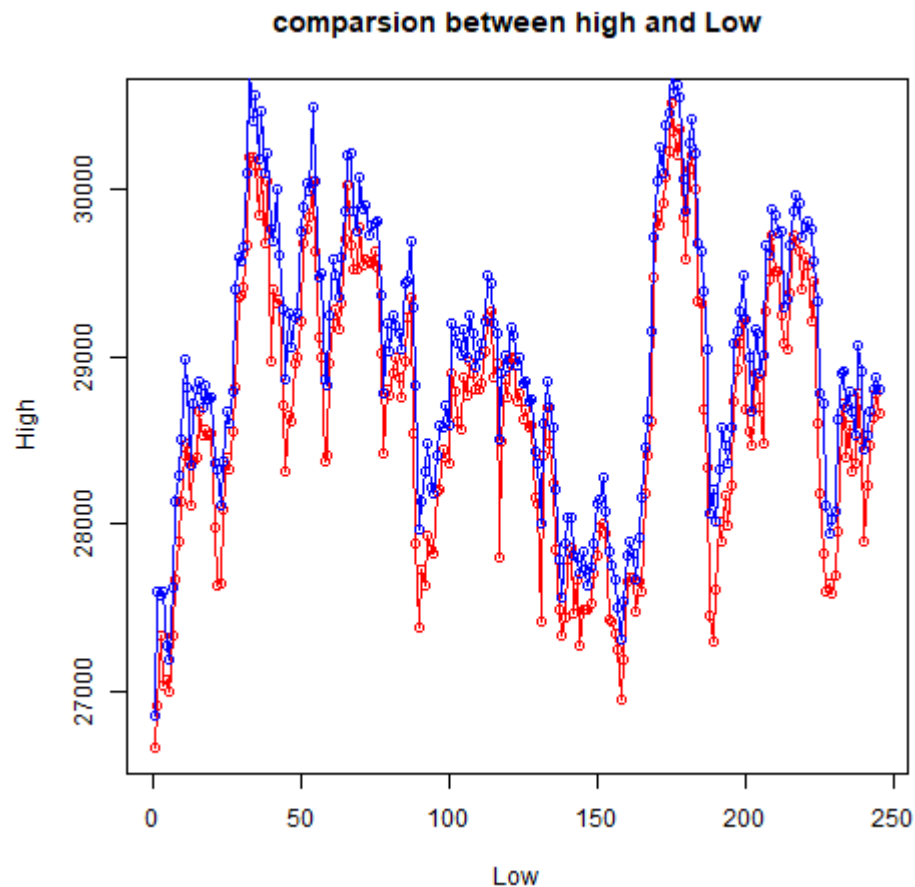
```
dev.off()
```



```
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
```

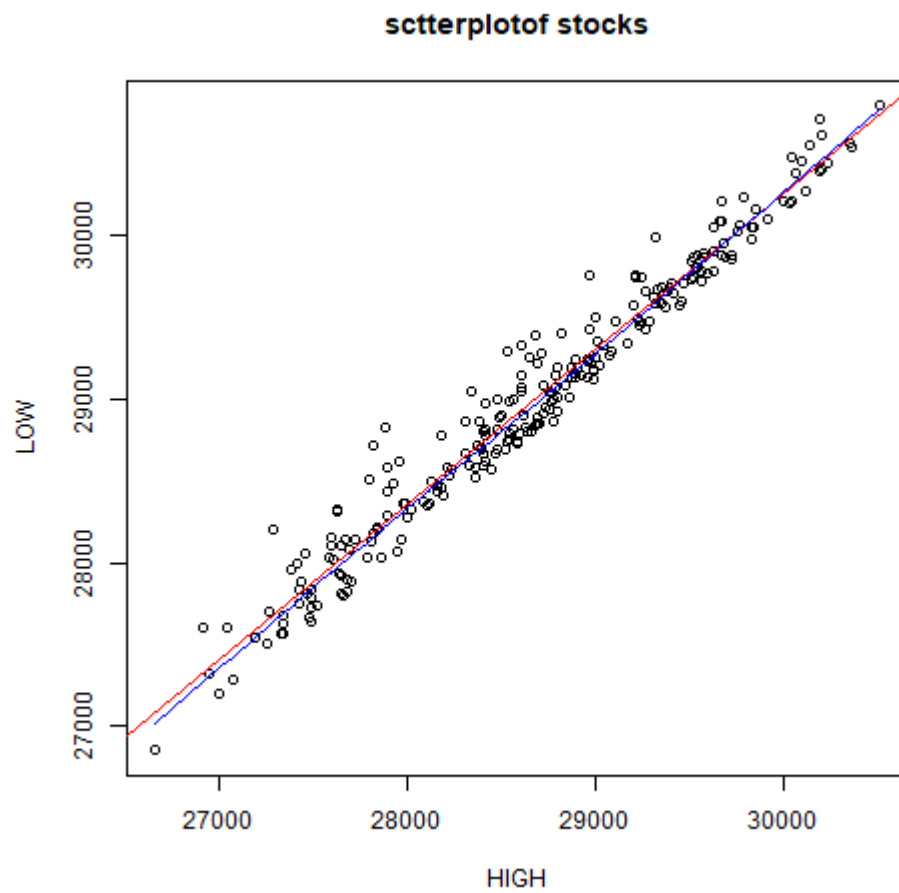
#LineChart

```
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