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Subject = Protocol of scripting  
language and h

Q3) => library(cdp1x0)

library(ggplot2)

library(tidyverse)

coracola <- read\_csv("c:/user/Admin/Desktop")

view(coracola)

library(quantmod)

head(coracola)

tail(coracola)

max(coracola\$volume)

min(coracola\$volume)

mean(coracola\$volume)

median(coracola\$volume)



quantile(cocacola \$ volume, 0.25)

quantile(cocacola \$ volume, 0.50)

quantile(cocacola \$ volume, 0.75)

sd(cocacola \$ volume)

var(cocacola \$ volume)

summary(cocacola)

# Bar graph

```
ggplot(cocacola, aes(y = High, x = Date)) + geom_bar(  
  stat = "identity")
```

# Pie chart

```
ggplot(cocacola, aes(y = "", fill = Date, x = volume))  
+ geom_bar(width = 1, stat = "identity") + coord_polar(  
  "x", start = 0)
```

# boxplot

```
ggplot(cocacola, aes(x = Date, y = volume)) + geom_  
-point()
```

# line graph

```
ggplot(cocacola, aes(y = Date, x = volume, group = High,  
  colour = High)) + geom_line() + geom
```



# Scatter plot

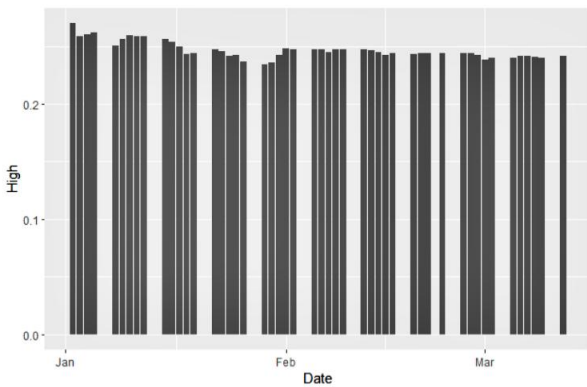
ggplot(crocodile, aes(x = Date, y = volume)) + geom\_point()

We provided with a dataset on the shares of Coca Cola. We will study the dataset and plot various graphs.



### #histogram

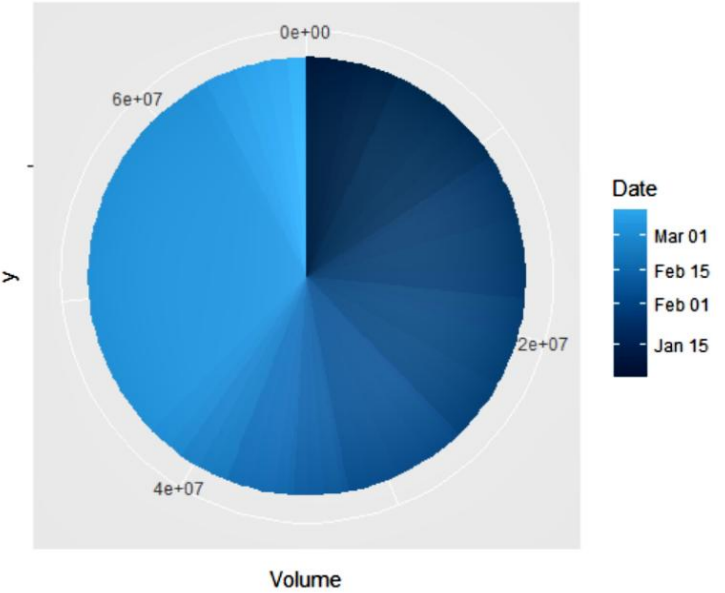
```
ggplot(cocacola,aes(y=High,x=Date))+geom_bar(stat="identity")
```



### #PIECHART

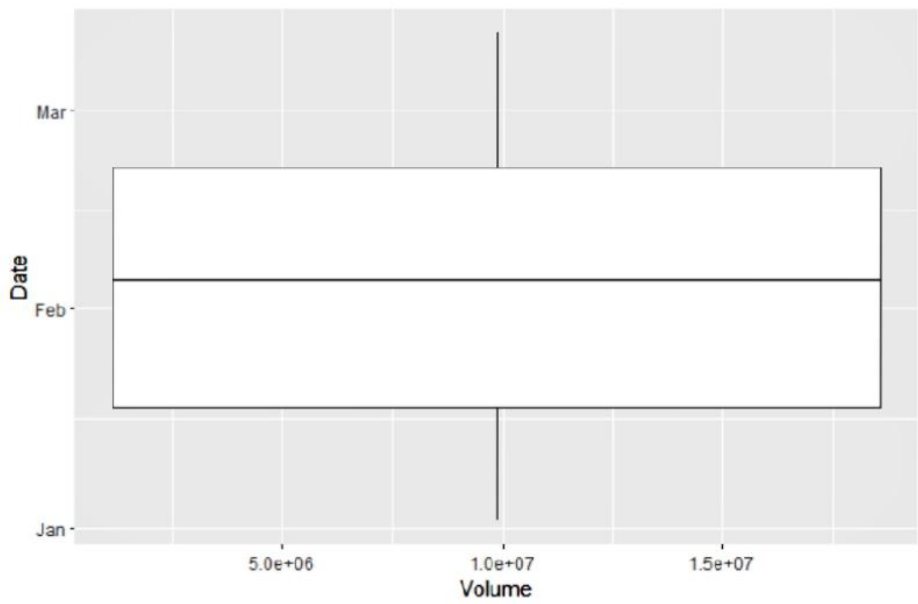
#PIECHART

```
ggplot(cocacola,aes(y="",fill=Date,x=Volume))+geom_bar(width=1,stat="identity")+coord_polar("x",start=0)
```



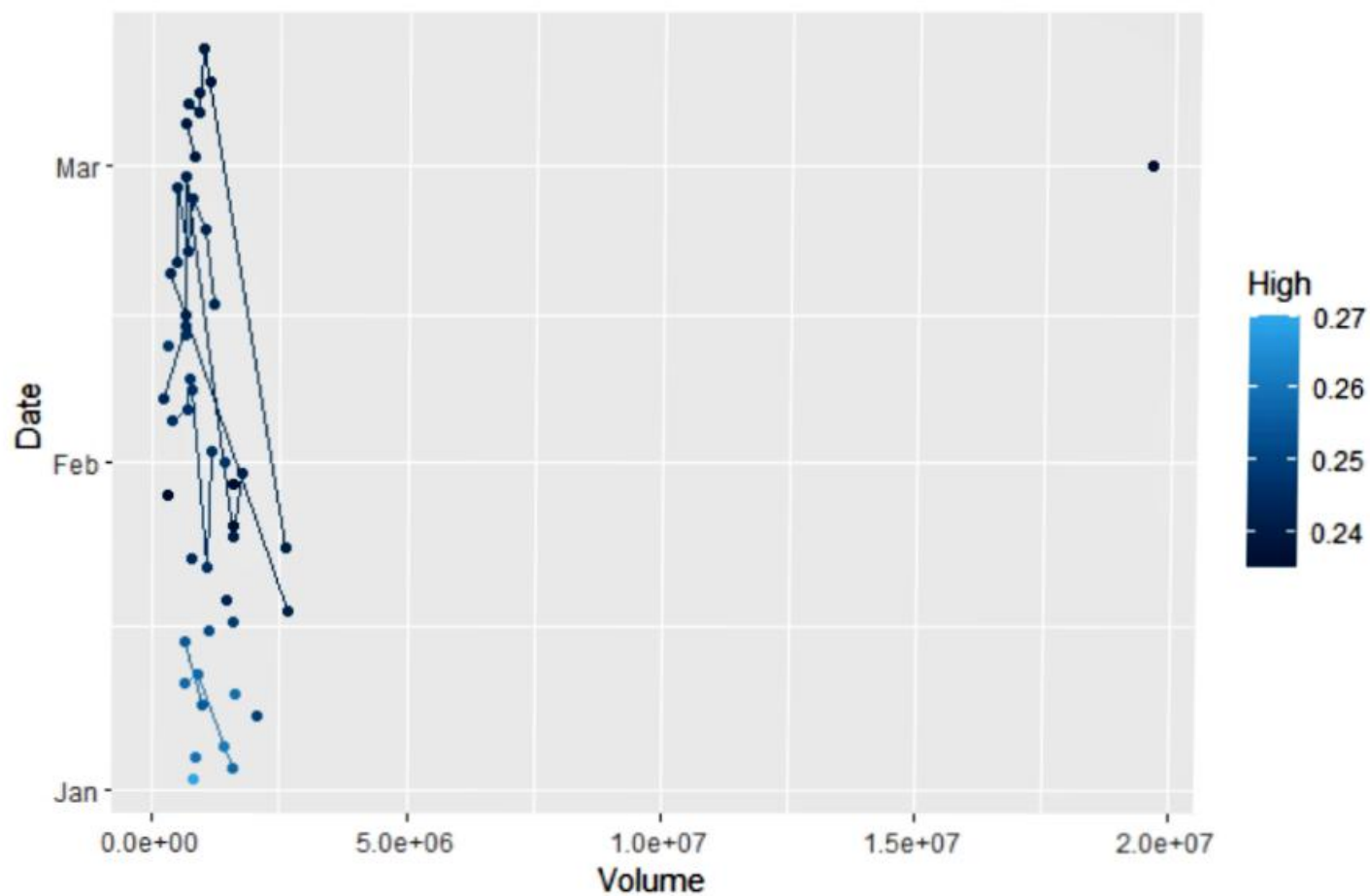
## #BOXPLOT

```
ggplot(cocacola,aes(y=Date,x=Volume))+geom_boxplot()
```



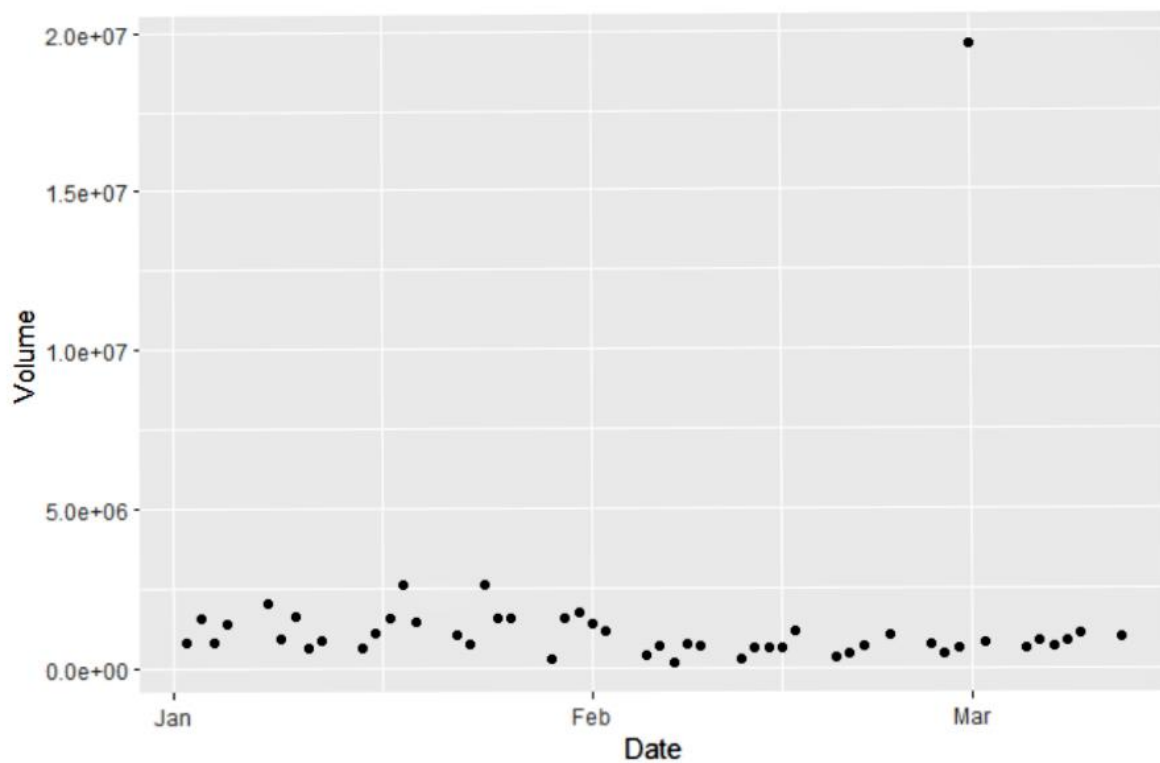
# #LINEGRAPH

```
ggplot(cocacola,aes(y=Date,x=Volume))+geom_boxplot()
```



# #SCATTERPLOT

```
ggplot(cocacola,aes(x=Date,y=Volume))+geom_point()
```





```

> R4.1.1 - / #
> head(cocacola)
# A tibble: 6 x 7
  Date           Open High Low Close Adj Close Volume
<dtm>          <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 1962-01-02 00:00:00 0.263 0.270 0.263 0.263 0.0511 806400
2 1962-01-03 00:00:00 0.259 0.259 0.253 0.257 0.0500 1374400
3 1962-01-04 00:00:00 0.258 0.261 0.258 0.259 0.0504 844800
4 1962-01-05 00:00:00 0.259 0.262 0.253 0.253 0.0492 1420800
5 1962-01-08 00:00:00 0.251 0.251 0.246 0.251 0.0487 2035200
6 1962-01-09 00:00:00 0.251 0.257 0.249 0.255 0.0496 960000
> tail(cocacola)
# A tibble: 6 x 7
  Date           Open High Low Close Adj Close Volume
<dtm>          <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 1962-03-05 00:00:00 0.240 0.240 0.237 0.237 0.0461 652800
2 1962-03-06 00:00:00 0.240 0.242 0.240 0.242 0.0471 883200
3 1962-03-07 00:00:00 0.242 0.242 0.239 0.239 0.0464 691200
4 1962-03-08 00:00:00 0.239 0.242 0.238 0.240 0.0466 883200
5 1962-03-09 00:00:00 0.240 0.241 0.235 0.237 0.0461 1113600
6 1962-03-12 00:00:00 0.240 0.242 0.240 0.242 0.0471 998400
>
> max(cocacola$Volume)
[1] 19545600
> min(cocacola$Volume)
[1] 192000
>
> mean(cocacola$Volume)
[1] 1391804
> median(cocacola$Volume)
[1] 883200
> quantile(cocacola$Volume,0.25)
25%
652800
> quantile(cocacola$Volume,0.50)
50%
883200
> quantile(cocacola$Volume,0.75)
75%
1420800
>
> sd(cocacola$Volume)
[1] 2702777
>
> var(cocacola$Volume)
[1] 7.305003e+12
>
> summary(cocacola)
      Date           Open           High           Low           Close
Min.:1962-01-02 00:00:00 Min.:0.2344 Min.:0.2350 Min.:0.2331 Min.:0.2334
1st Qu.:1962-01-18 00:00:00 1st Qu.:0.2396 1st Qu.:0.2428 1st Qu.:0.2383 1st Qu.:0.2396
Median :1962-02-05 00:00:00 Median :0.2435 Median :0.2448 Median :0.2415 Median :0.2428
Mean   :1962-02-04 13:13:29 Mean   :0.2452 Mean   :0.2472 Mean   :0.2427 Mean   :0.2446
3rd Qu.:1962-02-21 00:00:00 3rd Qu.:0.2474 3rd Qu.:0.2487 3rd Qu.:0.2454 3rd Qu.:0.2474
Max.   :1962-03-12 00:00:00 Max.   :0.2630 Max.   :0.2702 Max.   :0.2630 Max.   :0.2630
      Adj Close      Volume
Min.:0.04537 Min.:192000
1st Qu.:0.04658 1st Qu.:652800
Median :0.04721 Median :883200
Mean   :0.04756 Mean   :1391804
3rd Qu.:0.04809 3rd Qu.:1420800
Max.   :0.05113 Max.   :19545600
>

```

## Inference from the above dataset:-

- Maximum volume of cocacola is 19545600
- Minimum value of cocacola is 192000
- Mean of cocacola's volume is 1391804