Question – 3 Analyze any CSV data Set using R.
Solution –

- Setting of Working Directory

  setwd ("C:/Users/Ashutosh/Downloads")

- Reading of .csv file

- **mydata1 <- read.csv("coin_Aave.csv")**

- Installing ggplot package

  install.packages("ggplot2")

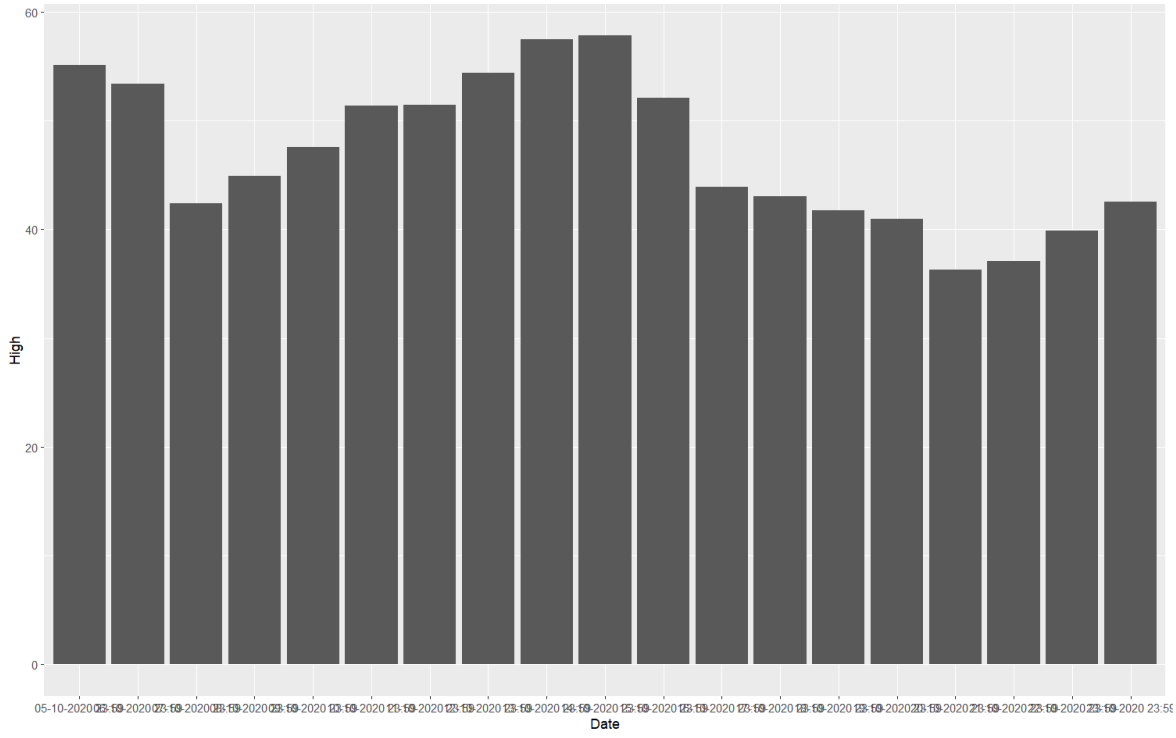
  this package is important for plotting graphs and charts few of them will be shown below.

- Using ggplot() library

  library(ggplot2)

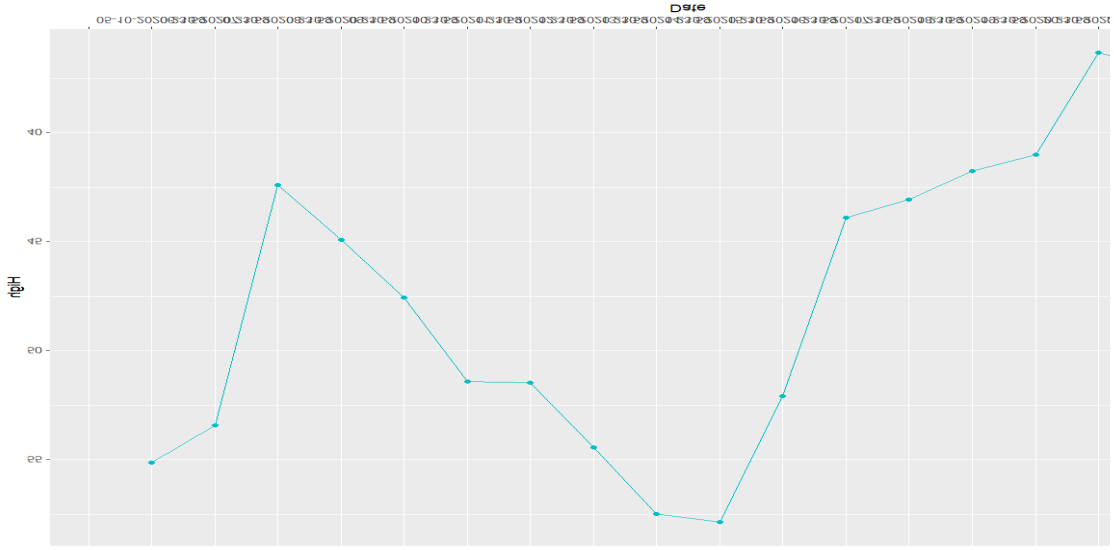
- **Barghraph**

ggplot(mydata1, aes(y=High, x=Date)) + geom_bar(stat = "identity")



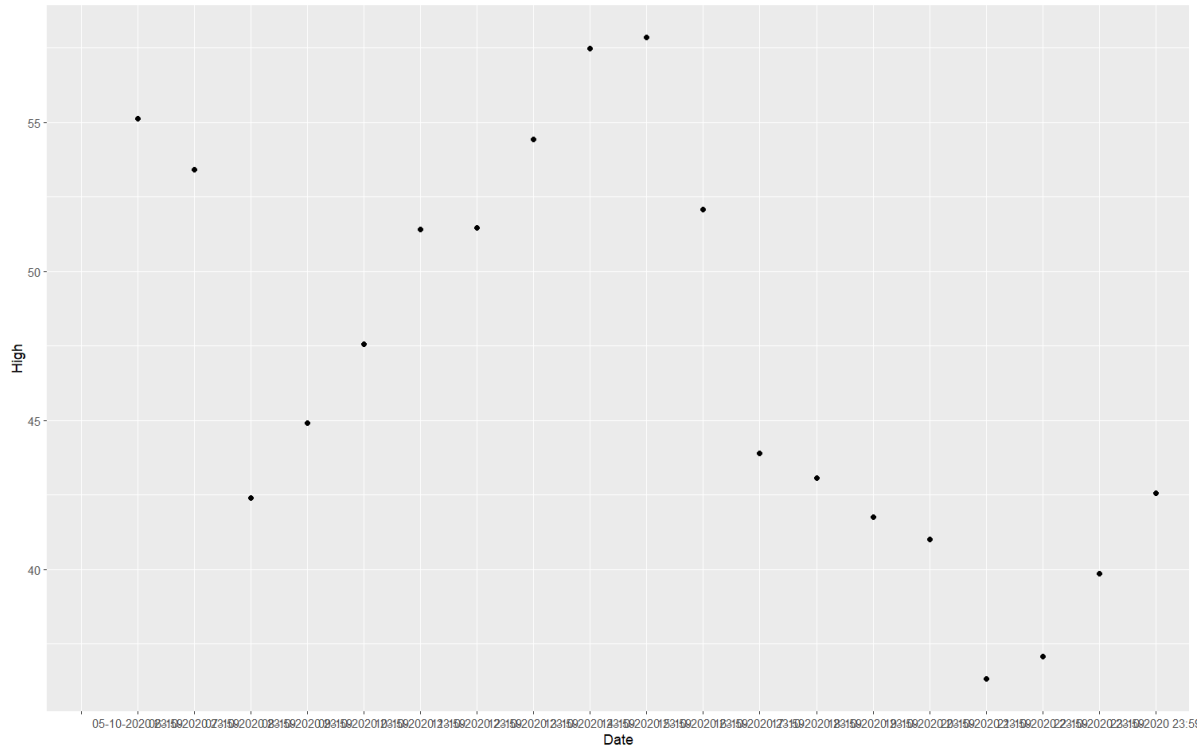
Line Plotting – gg

plot (mydata, aes (y= High, x= Date, group=Symbol, color=Symbol)) + geom_line() + geom_point()



- **Scatter plotting**

  ggplot(mydata1, aes(x =Date, y =High)) +geom_point()



Some

Quantitative Data

```
21
22  • Minimum
23  min(mydata1$Close)
24
25  • Maximum
26  max(mydata1$Close)
27
28  • Mean
29  mean(mydata1$Close)
30
31
32  • Median
33  median(mydata1$Close)
34
35  • Quantile
36  quantile(mydata1$Close, 0.25)
37
38  quantile(mydata1$Close, 0.75)
39
40  • Standard Deviation And Variance
41  sd(mydata1$Close)
42  var(mydata1$Close)
43
44  • Summary
45  summary(mydata1)
46
```

Output

```
>
>
>
> min(mydata1$Close)
[1] 32.18002
> max(mydata1$Close)
[1] 53.21924
> mean(mydata1$Close)
[1] 43.60321
> median(mydata1$Close)
[1] 42.4016
> quantile(mydata1$Close, 0.25)
     25%
39.78991
> quantile(mydata1$Close, 0.75)
     75%
49.39722
> sd(mydata1$Close)
[1] 6.231107
> var(mydata1$Close)
[1] 38.82669
> summary(mydata1)
       SNo            Name              Symbol              Date               High
 Min.   : 1.0   Length:19          Length:19          Length:19          Min.   :36.32
 1st Qu.: 5.5   Class :character   Class :character   Class :character   1st Qu.:42.08
 Median :10.0   Mode  :character   Mode  :character   Mode  :character   Median :44.90
 Mean   :10.0                                                           Mean   :47.03
 3rd Qu.:14.5                                                           3rd Qu.:52.74
 Max.   :19.0                                                           Max.   :57.85
      Low              Open            Close            Volume            Marketcap
 Min.   :32.05   Min.   :32.25   Min.   :32.18   Min.   :       0   Min.   : 67130037
 1st Qu.:36.33   1st Qu.:39.69   1st Qu.:39.79   1st Qu.:  945082   1st Qu.:228589674
 Median :39.53   Median :42.89   Median :42.40   Median : 3132405   Median :258274392
 Mean   :41.15   Mean   :44.12   Mean   :43.60   Mean   :23076442   Mean   :268815104
 3rd Qu.:47.71   3rd Qu.:50.52   3rd Qu.:49.40   3rd Qu.:46560566   3rd Qu.:348971842
 Max.   :49.79   Max.   :53.29   Max.   :53.22   Max.   :76081860   Max.   :445257058
>
>
>
>
>
>
>
```

Results –

Through this project we came to know that the value of “Aave” Crypto currency is decreasing with the date.