

Business Analytics- Assignment 1: Setting Up R

10-02-2022

```
#install.packages("ISLR") - command executed to install ISLR package
library("ISLR") ##access ISLR package for current data frame.
bharath<-Carseats #command to save carseats in a data frame- bharath
View(bharath) #command to check data frame is executed properly
```

```
#executed to check summary of carseats
summary(bharath)
```

```
##      Sales      CompPrice      Income      Advertising
##  Min.   : 0.000   Min.    : 77   Min.    : 21.00   Min.    : 0.000
## 1st Qu.: 5.390   1st Qu.:115   1st Qu.: 42.75   1st Qu.: 0.000
## Median : 7.490   Median :125   Median : 69.00   Median : 5.000
## Mean   : 7.496   Mean    :125   Mean    : 68.66   Mean    : 6.635
## 3rd Qu.: 9.320   3rd Qu.:135   3rd Qu.: 91.00   3rd Qu.:12.000
## Max.   :16.270   Max.    :175   Max.    :120.00   Max.    :29.000
##      Population      Price      ShelfLoc      Age      Education
##  Min.    : 10.0   Min.    : 24.0   Bad    : 96   Min.    :25.00   Min.    :10.0
## 1st Qu.:139.0   1st Qu.:100.0   Good   : 85   1st Qu.:39.75   1st Qu.:12.0
## Median :272.0   Median :117.0   Medium:219   Median :54.50   Median :14.0
## Mean    :264.8   Mean    :115.8               Mean    :53.32   Mean    :13.9
## 3rd Qu.:398.5   3rd Qu.:131.0               3rd Qu.:66.00   3rd Qu.:16.0
## Max.    :509.0   Max.    :191.0               Max.    :80.00   Max.    :18.0
##      Urban      US
##   No :118   No :142
##  Yes:282   Yes:258
##
##
##
##
```

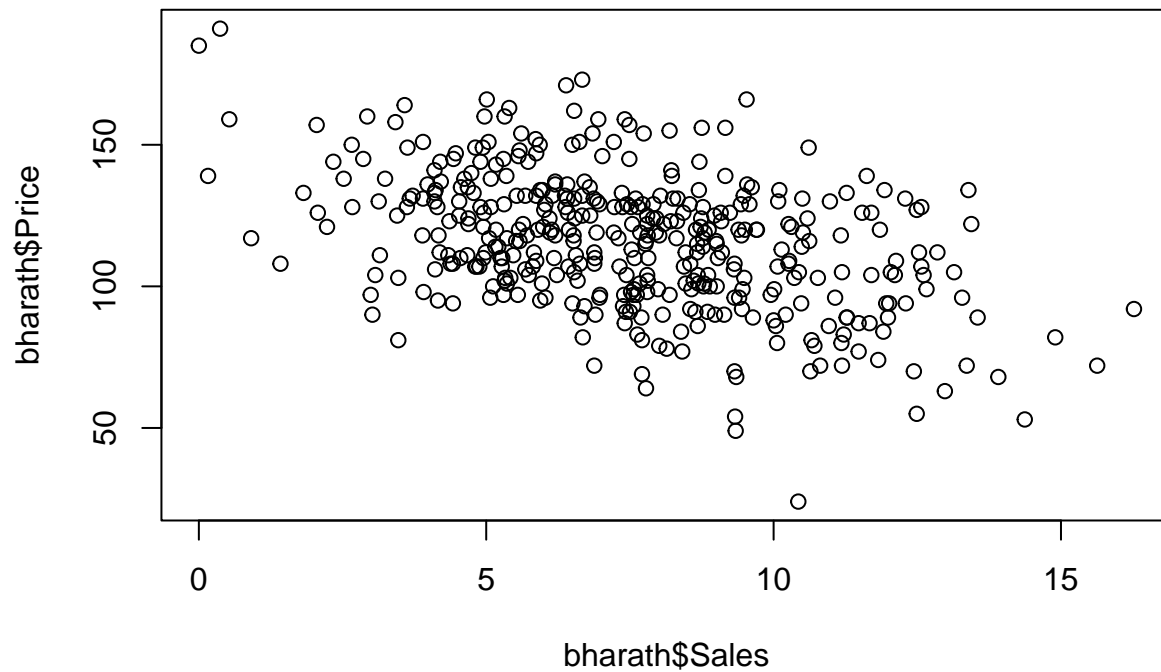
```
#command to check maximum value of advertising
max(bharath$Advertising)
```

```
## [1] 29
```

```
#command to check IQR of Price
IQR(bharath$Price)
```

```
## [1] 31
```

```
#command to plot Sales against Price
plot(bharath$Sales, bharath$Price)
```



```
#command to check correlation between Sales and Price  
cor.test(bharath$Sales,bharath$Price)
```

```
##  
## Pearson's product-moment correlation  
##  
## data: bharath$Sales and bharath$Price  
## t = -9.912, df = 398, p-value < 2.2e-16  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.5203026 -0.3627240  
## sample estimates:  
## cor  
## -0.4449507
```

```
#The correlation between sales and price is Negative.
```