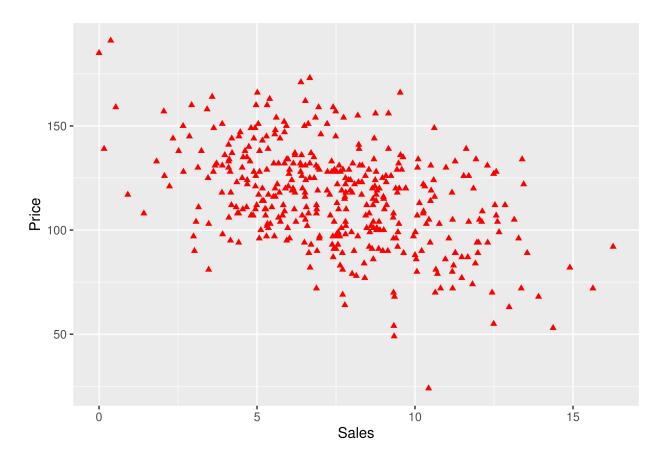
Business Analytics Assignment 1

VENU DODDA

```
# ISLR package has been installed so calling the ISLR library
library(ISLR)
# Displaying the Car Dataset.
summary(Carseats)
##
       Sales
                     CompPrice
                                    Income
                                                 Advertising
   Min.
         : 0.000
                         : 77
                                      : 21.00
                                                      : 0.000
                   Min.
                                Min.
                                                Min.
  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
                                  ShelveLoc
                                                              Education
                                                 Age
## Min. : 10.0 Min. : 24.0
                                 Bad : 96
                                             Min. :25.00 Min. :10.0
                                             1st Qu.:39.75
## 1st Qu.:139.0 1st Qu.:100.0
                                 Good : 85
                                                           1st Qu.:12.0
## Median :272.0 Median :117.0
                                 Medium:219
                                                           Median:14.0
                                             Median :54.50
## 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. :80.00
                  Max. :191.0
                                                            Max. :18.0
## Urban
             US
## No :118 No :142
## Yes:282
            Yes:258
##
##
##
# Displaying No. Of Records in the Dataset
nrow(Carseats)
## [1] 400
# Displaying the Maximum value of the Advertising attribute
max(Carseats$Advertising)
## [1] 29
# Calculating the IQR of the prices attribute
IQR(Carseats$Price)
```

[1] 31

```
# Plotting a grath between Sales and Prices (X = Sales, Y = Price)
library(ggplot2)
ggplot(Carseats) +aes(
    x = Sales,
    y = Price ) +
geom_point(shape ="triangle", size =1.5, colour ="red")
```



Correlation value of the sales and prices is Negative cor(Carseats\$Sales, Carseats\$Price)

[1] -0.4449507