RScript-Module-1.R

mohil

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```
print("Sanjana Sandeep Mohile")
```

```
## [1] "Sanjana Sandeep Mohile"
```

```
r=getOption("repos")
r["CRAN"]="http://cran.us.r-project.org"
options(repos = r)
install.packages("vcd")
```

```
## Installing package into 'C:/Users/mohil/OneDrive/Documents/R/win-library/4
.1'
## (as 'lib' is unspecified)
```

```
## package 'vcd' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\mohil\AppData\Local\Temp\RtmpyoriMc\downloaded_packages
```

```
library("vcd")
```

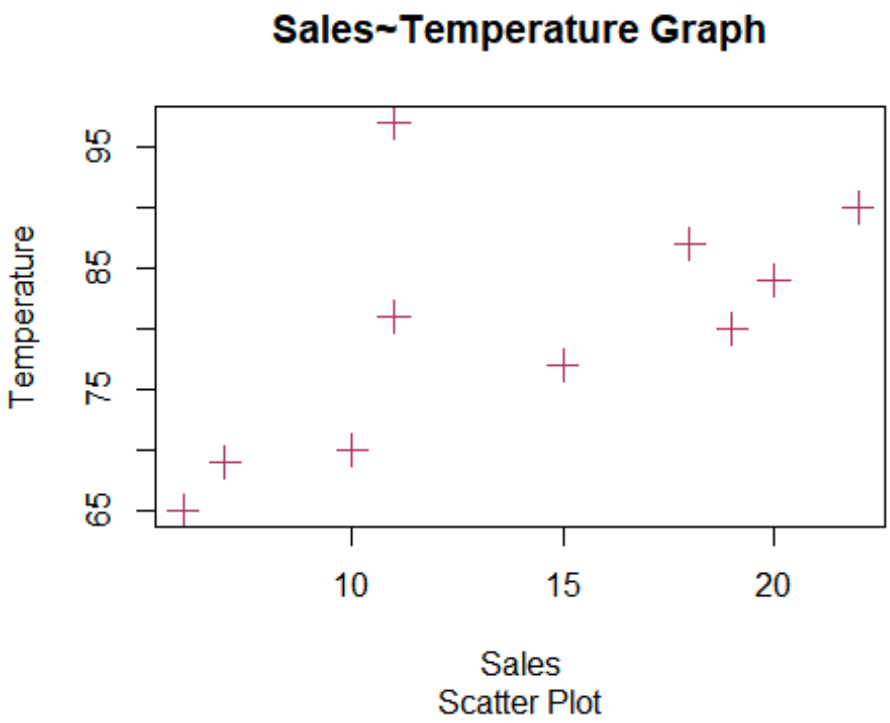
```
## Loading required package: grid
```

```
# Scatter plot of sales~temperature
Sales_data <- c(7,11,15,20,19,11,18,10,6,22)
Temperature_data <- c(69,81,77,84,80,97,87,70,65,90)

x <- Sales_data
y <- Temperature_data

?plot
```

```
## starting httpd help server ...
```

```
##  done
```

```
plot(x,y, main = "Sales~Temperature Graph", sub = "Scatter Plot",
     xlab = "Sales", ylab = "Temperature", type = "p",pch=3 , cex = 1.5,col =
"maroon")
```




```
mean_temp = mean(Temperature_data)
print(paste("The mean temperature is : ",mean_temp))
```

```
## [1] "The mean temperature is :  80"
```

```
Sales_data[-3]
```

```
## [1]  7 11 20 19 11 18 10  6 22
```

```
Sales_data[3] <- 16
print(Sales_data)
```

```
##  [1]  7 11 16 20 19 11 18 10  6 22
```

```
names <- c('Tom','Dick','Harry')
print(names)
```

```
## [1] "Tom"   "Dick"  "Harry"
```

```
data <- c(10,20,30,40,50,60,70,80,90,100)
matrix_a <-matrix(data, nrow = 5, ncol = 2, byrow = TRUE)
matrix_a
```

```
##      [,1] [,2]
## [1,]   10   20
## [2,]   30   40
## [3,]   50   60
## [4,]   70   80
## [5,]   90  100
```

```r
icScales <- data.frame(Sales_data,Temperature_data)
print(icScales)
```

```
##    Sales_data Temperature_data
## 1           7               69
## 2          11               81
## 3          16               77
## 4          20               84
## 5          19               80
## 6          11               97
## 7          18               87
## 8          10               70
## 9           6               65
## 10         22               90
```

```r
summary(icScales)
```

```
##    Sales_data    Temperature_data
##  Min.   : 6.00   Min.   :65.00
##  1st Qu.:10.25   1st Qu.:71.75
##  Median :13.50   Median :80.50
##  Mean   :14.00   Mean   :80.00
##  3rd Qu.:18.75   3rd Qu.:86.25
##  Max.   :22.00   Max.   :97.00
```

```r
Student <- read.csv("C:/Users/mohil/OneDrive/Desktop/Studies/ALY-6000 Introduction to Analytics/Module 1/Student.csv", header = TRUE, sep = ",")
```

```
## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
## incomplete final line found by readTableHeader on 'C:/Users/mohil/OneDrive/
## Desktop/Studies/ALY-6000 Introduction to Analytics/Module 1/Student.csv'
```

```r
print(Student)
```

```
##   StudentID First          Last Math Science Social.Studies
## 1        11   Bob         Smith   90      80             67
## 2        12  Jane         Weary   75      NA             80
## 3        10   Dan Thornton, III   65      75             70
## 4        40  Mary       O'Leary   90      95             92
```

```r
colnames(Student)
```

```
## [1] "StudentID"      "First"          "Last"           "Math"
## [5] "Science"        "Social.Studies"
```

```r
typeof(Sales_data)
```

```
## [1] "double"
```

```r
typeof(Temperature_data)
```

```
## [1] "double"
```

```
install.packages("tinytex")
```

```
## Installing package into 'C:/Users/mohil/OneDrive/Documents/R/win-library/4
.1'
## (as 'lib' is unspecified)
```

```
## package 'tinytex' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\mohil\AppData\Local\Temp\RtmpyoriMc\downloaded_packages
```

```
tinytex::install_tinytex()
```