ParvaPatel_M1_Project.R

parva

2022-01-21

```
# 1. Print your name at the top of the script
print("Parva Pareshbhai Patel")
```

```
## [1] "Parva Pareshbhai Patel"
```

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

```
## Installing package into 'C:/Users/parva/OneDrive/Documents/R/win-library/4.1'
## (as 'lib' is unspecified)
```

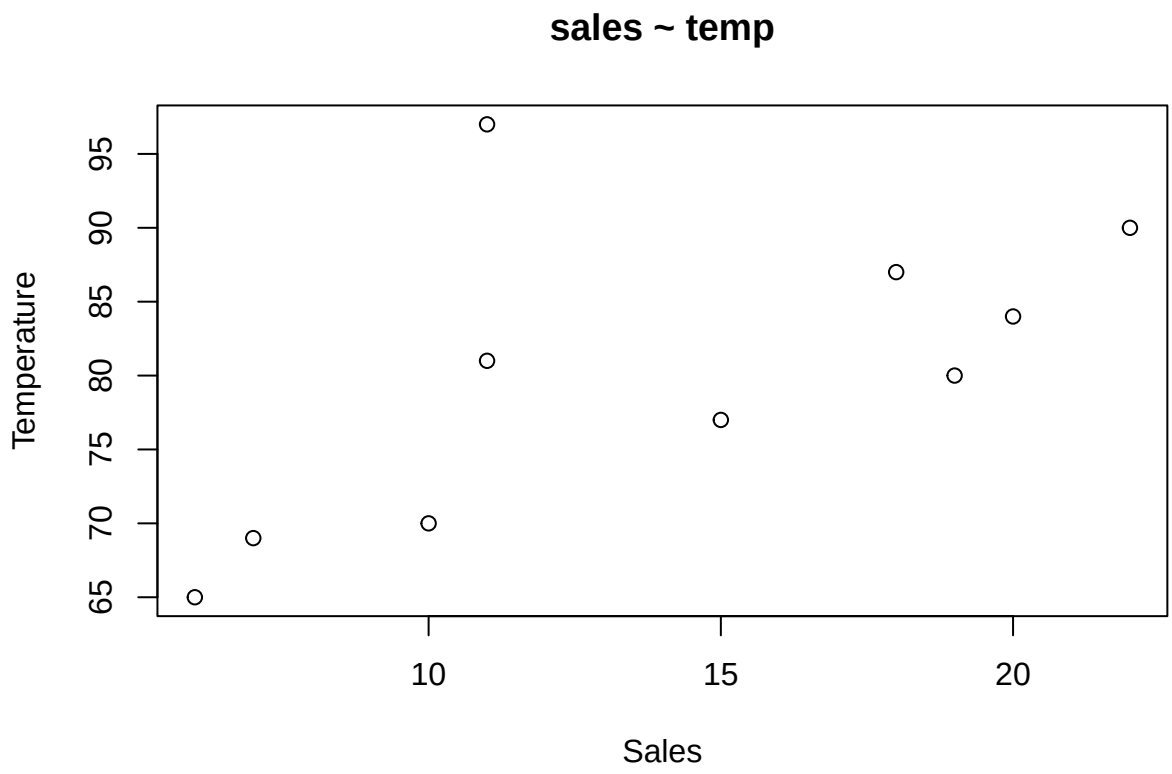
```
## package 'vcd' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\parva\AppData\Local\Temp\RtmpIfZMPs\downloaded_packages
```

```
# 3. Import the vcd library
library(vcd)
```

```
## Warning: package 'vcd' was built under R version 4.1.2
```

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

```
# 4. plot a sales ~ temp scatter plot
Sales <- c(7,11,15,20,19,11,18,10,6,22)
Temperature <- c(69,81,77,84,80,97,87,70,65,90)
plot(Sales,Temperature,main = "sales ~ temp")
```




```
# 5.Mean of Temperature
mean(Temperature)
```

```
## [1] 80
```

```
# 6. Delete the 3 element from the sales vector
Sales <- Sales[-3]
Sales
```

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

```
# 7. Insert 16 as the 3rd element in Sales vector
Sales <- c(Sales[1:2],16,Sales[3:length(Sales)])
Sales
```

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

```
# 8. Vector names with elements Tom, Dick, Harry
names <- c("Tom","Dick","Harry")
names
```

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

```r
# 9. 5 rows and 2 column matrix of 10 integers
matrix(c(1:10),nrow=5,ncol=2)
```

```
##      [,1] [,2]
## [1,]    1    6
## [2,]    2    7
## [3,]    3    8
## [4,]    4    9
## [5,]    5   10
```

```r
# 10. icSales data frame with Sales and Temperature attributes

icSales <- data.frame(Sales,Temperature)
icSales
```

```
##    Sales Temperature
## 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
# 11. The data frame structure of icSales
str(icSales)
```

```
## 'data.frame':    10 obs. of  2 variables:
##  $ Sales      : num  7 11 16 20 19 11 18 10 6 22
##  $ Temperature: num  69 81 77 84 80 97 87 70 65 90
```

```r
# 12. The summary of the icSales data frame
summary(icSales)
```

```
##      Sales        Temperature
##  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
# 13. Import the dataset Student.csv
student<-read.csv("Student.csv",header=TRUE,sep=",")
```

```
## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
## incomplete final line found by readTableHeader on 'Student.csv'
```

```
View(student)

# Display names of student
ls(student)
```

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