project-1.R

Parth

2022-01-17

```r
print("Parth Sawant")

## [1] "Parth Sawant"

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

## Installing package into 'C:/Users/Parth/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\Parth\AppData\Local\Temp\Rtmpam2fyU\downloaded_packages

library(vcd)

## Loading required package: grid

Salesdata <- c(7,11,15,20,19,11,18,10,6,22)
Temperaturedata <- c(69,81,77,84,80,97,87,70,65,90)
plot(Salesdata, Temperaturedata, col='red', main = "plotting data for sales
data",xlab = "sales",ylab = "temprature")
```
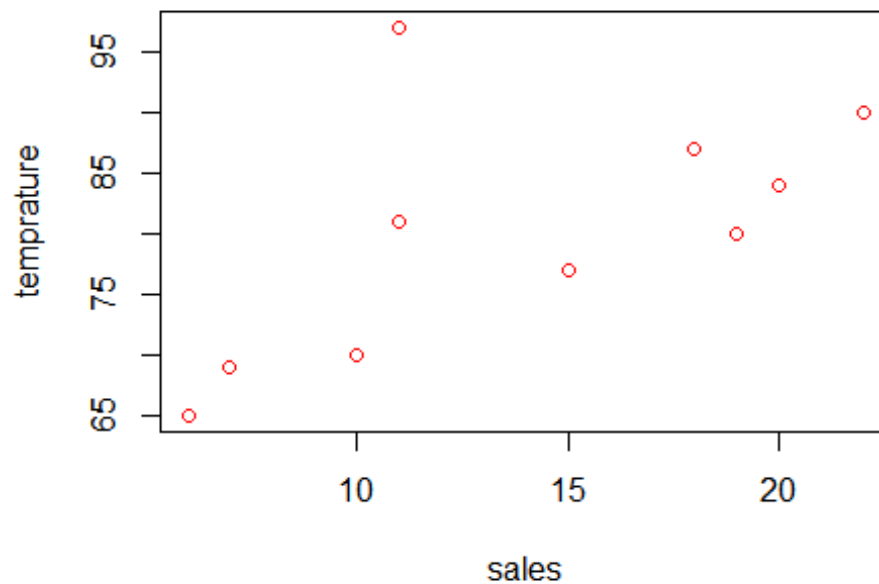
plotting data for sales data


```
mean_temp <- mean(Temperaturedata)
print(paste("The mean temperature is",mean_temp))

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

Salesdata[-3]

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

Salesdata[3] <- 16
print(Salesdata)

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

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

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

?matrix

## starting httpd help server ...

##   done

matrix(1:10,nrow=5, ncol=2,byrow=TRUE)

##      [,1] [,2]
## [1,]    1    2
```

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

```r
matrix(1:10,nrow=5, ncol=2,byrow=FALSE)
```

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

```r
icScales <- data.frame(Salesdata, Temperaturedata)
```

```r
print(icScales)
```

```
##    Salesdata Temperaturedata
## 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)
```

```
##    Salesdata      Temperaturedata
##  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/Parth/Desktop/Introduction to
Analytics/Student.csv")
```

```
## Warning in read.table(file = file, header = header, sep = sep, quote =
quote, :
## incomplete final line found by readTableHeader on 'C:/Users/Parth/Desktop/
## Introduction to Analytics/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
```

```
colnames(student)
```

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

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

```
## Installing package into 'C:/Users/Parth/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\Parth\AppData\Local\Temp\Rtmpam2fyU\downloaded_packages
```

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