WORKSHEET -4

Mark Wryzel Macarobo BSIT-2A

12/6/2022

1.

```
dframe <- data.frame(Shoesize, Height, Gender, Shoe_size, Height_, Gender_)
dframe</pre>
```

```
Shoesize Height Gender Shoe_size Height_ Gender_
##
## 1
           6.5
                  66.0
                             F
                                     13.0
                                               77
## 2
           9.0
                  68.0
                             F
                                     11.5
                                               72
                                                         М
## 3
           8.5
                  64.5
                             F
                                      8.5
                                                59
                                                         F
## 4
           8.5
                  65.0
                             F
                                     5.0
                                                62
                                                         F
## 5
          10.5
                  70.0
                             М
                                    10.0
                                               72
                                                         М
## 6
           7.0
                  64.0
                                      6.5
                                               66
                                                         F
                             F
                  70.0
                             F
                                     7.5
                                                         F
## 7
           9.5
                                               64
## 8
           9.0
                  71.0
                             F
                                     8.5
                                                67
                                                         М
## 9
          13.0
                  72.0
                             М
                                    10.5
                                               73
                                                         М
## 10
           7.5
                  64.0
                             F
                                     8.5
                                                69
                                                         F
                                               72
## 11
          10.5
                  74.5
                                     10.5
                                                         М
                             Μ
                                                70
## 12
           8.5
                  67.0
                             F
                                     11.0
                                                         М
## 13
          12.0
                                                69
                                                         М
                  71.0
                             М
                                      9.0
## 14
          10.5
                  71.0
                             М
                                     13.0
                                                70
                                                         Μ
```

a.Describe the data. - The data shows the different shoe size among male and female in different height

b.

```
mean1 <- mean(Shoesize)
mean1</pre>
```

[1] 9.321429

```
mean2 <- mean(Shoe_size)
mean2
```

[1] 9.5

```
result1 <- c(mean1, mean2)
result1
## [1] 9.321429 9.500000
shoemean <- mean(result1)</pre>
shoemean
## [1] 9.410714
mean3 <- mean(Height)</pre>
mean3
## [1] 68.42857
mean4 <- mean(Height_)</pre>
mean4
## [1] 68.71429
result2 <- c(mean3, mean4)
result2
## [1] 68.42857 68.71429
heightmean <- mean(result2)
heightmean
## [1] 68.57143
gtm <- mean(c(shoemean, heightmean))</pre>
## [1] 38.99107
Yes, there is a relationship between shoe size and height, the shoe sizes is big when the respondents is also
tall. If the height of the respondents is below 70.0 their shoe size will be small. FACTORS
months_vector <- c("March", "April", "January", "November", "January", "September", "October", "September", "No
factor_months_vector <- factor(months_vector)</pre>
factor_months_vector
                                                               September October
   [1] March
                   April
                              January
                                         November
                                                    January
##
  [8] September November
                              August
                                         January
                                                    November
                                                               November February
                   August
                              July
## [15] May
                                         December
                                                    August
                                                               August
                                                                          September
## [22] November February April
## 11 Levels: April August December February January July March May ... September
  3.
```

```
smry <- summary(months_vector)</pre>
smry
##
     Length
                Class
                           Mode
         24 character character
##
smry2 <- summary(factor_months_vector)</pre>
smry2
              August December February
##
      April
                                           January
                                                        July
                                                                             May
                                                                 March
                    4
##
                             1
                                                         1
                                                                     1
## November October September
##
          5
                    1
  4.
factor_data <- c("East" = '1', "West" = '4', "North" = '3')</pre>
factor_data
## East West North
## "1" "4" "3"
new_order_data <- factor(factor_data,levels = c("East" = '1', "West" = '4', "North" = '3'))</pre>
print(new_order_data)
## East West North
## 1
           4
## Levels: 1 4 3
  5.
import <- read.table("import_march.csv", header= TRUE, sep= ",")</pre>
import
    Students Strategy.1 Strategy.2 Strategy.3
##
## 1 Male
                    8
                              10
## 2
                      4
                                8
                                           6
## 3
                     0
                                6
                                           4
## 4
                                4
                     14
                                          15
      Female
                               2
## 5
                     10
                                          12
## 6
                                0
                                           9
                      6
getwd()
```

[1] "D:/BSIT2A-CS101/Macarobo_Repo/WORKSHEET -4"