RStudio

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R basics.R | Assignment 2 R.R | Dataframe assigment_final.R

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```
1  #Module 3 assignment is to create, discuss and provide statistical analysis for Matrix and data frame for
2  # the below dataset example
3
4  #In the given below Example, Here is my analysis
5  #> Name <- c("Jeb", "Donald", "Ted", "Marco" "Carly", "Hillary", "Berine")
6  # >ABC political poll results <- c(4, 62 51, 21, 2, 14, 15)
7  # >CBS political poll results <- c(12, 75, 43, 19, 1, 21, 19)
8
9  #
10 #I found there is comma missing after 62 in ABC political poll results and assigned names
11 #is having spaces in between , hence code was error, and I corrected as below and have assigned  names as ABC and NCB
12
13
14 Name <-c("Jeb","Donald","Ted","Macro","Carly","Hillary","Berine")
15 ABC <- c(4, 62, 51, 21, 2, 14, 15)
16 NCB <- c(12, 75, 43, 19, 1, 21, 19)
17 #these are the given variables to provide the statistcal analysis
18 #converting into matrix
19
20 Poll_results <-cbind(Name, ABC,NCB)
21 Poll_results
22 #Got Matrix as a result
```

29:1 (Top Level) R Script

Console | Terminal | Jobs

R 4.1.2 · ~/

```
> Name <-c("Jeb","Donald","Ted","Macro","Carly","Hillary","Berine")
> ABC <- c(4, 62, 51, 21, 2, 14, 15)
> NCB <- c(12, 75, 43, 19, 1, 21, 19)
> Name <-c("Jeb","Donald","Ted","Macro","Carly","Hillary","Berine")
> ABC <- c(4, 62, 51, 21, 2, 14, 15)
> NCB <- c(12, 75, 43, 19, 1, 21, 19)
> #these are the given variables to provide the statistcal analysis
> #converting into matrix
>
> Poll_results <-cbind(Name, ABC,NCB)
> Name <-c("Jeb","Donald","Ted","Macro","Carly","Hillary","Berine")
> ABC <- c(4, 62, 51, 21, 2, 14, 15)
> NCB <- c(12, 75, 43, 19, 1, 21, 19)
> #these are the given variables to provide the statistcal analysis
> #converting into matrix
>
> Poll_results <-cbind(Name, ABC,NCB)
> Poll_results
      Name       ABC  NCB
[1,] "Jeb"      "4"  "12"
[2,] "Donald"   "62" "75"
[3,] "Ted"      "51" "43"
[4,] "Macro"    "21" "19"
[5,] "Carly"    "2"  "1"
[6,] "Hillary"  "14" "21"
[7,] "Berine"   "15" "19"
```

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```
32 mean(poll_results.df)
33
34 #Got a warning message as argument is not numerical or logical returning N/A
35
36 mean(poll_results.df[,2:3])
37
38 #Got a warning message as argument is not numerical or logical returning N/A
39 # I tried the code by removing the comma
40
41 mean(poll_results.df[2:3])
42 #Got a warning message as argument is not numerical or logical returning N/A
43
44 #I tried by taking only single numeric variable
45 mean(poll_results.df[,2])
46
47 # I got the mean of 2nd column as 24.14286 , Want I noticed is by using two columns am getting error
48
49 mean(poll_results.df[,3])
50
51 #Mean of 3rd column  is 27.14286
```

29:1 (Top Level) R Script

Environment | Data | C.df | candid | Poll_r | poll_r | Values | ABC | CBS | Name | NCB

Console | Terminal | Jobs

R 4.1.2 · ~/

```
> mean(poll_results.df)
[1] NA
Warning message:
In mean.default(poll_results.df) :
  argument is not numeric or logical: returning NA
>
> #Got a warning message as argument is not numerical or logical returning N/A
>
> mean(poll_results.df[,2:3])
[1] NA
Warning message:
In mean.default(poll_results.df[, 2:3]) :
  argument is not numeric or logical: returning NA
>
> #Got a warning message as argument is not numerical or logical returning N/A
> # I tried the code by removing the comma
>
> mean(poll_results.df[2:3])
[1] NA
Warning message:
In mean.default(poll_results.df[2:3]) :
  argument is not numeric or logical: returning NA
> #Got a warning message as argument is not numerical or logical returning N/A
>
> #I tried by taking only single numeric variable
> mean(poll_results.df[,2])
[1] 24.14286
>
> # I got the mean of 2nd column as 24.14286 , Want I noticed is by using two columns am getting error
>
> mean(poll_results.df[,3])
[1] 27.14286
>
> #Mean of 3rd column  is 27.14286
```

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```
50
51 #Mean of 3rd column  is 27.14286
52
53 # to get the mean of both columns together I tried  ColMeans command
54
55 colMeans(poll_results.df[2:3])
56
57 # I got result as      ABC      NCB
58 #                   24.14286 27.14286
59
60 #To setup the data frame and matrix for the dataset
61
62 as.matrix(poll_results.df)
63
64 #Got the Matrix result
65
66 as.matrix(ABC)*(NCB)
67
68 #As the poll results  is having numeric and characters , Multiplication of matrix column was not working
69 #So I have directly used columns name to perform the multiplication
70
```

66:21 (Top Level) R Script

Console | Terminal | Jobs

R 4.1.2 · ~/

```
> #Mean of 3rd column  is 27.14286
>
> # to get the mean of both columns together I tried  ColMeans command
>
> colMeans(poll_results.df[2:3])
     ABC      NCB
24.14286 27.14286
>
> # I got result as      ABC      NCB
> #                   24.14286 27.14286
>
> #To setup the data frame and matrix for the dataset
>
> as.matrix(poll_results.df)
     Name      ABC  NCB
[1,] "Jeb"     " 4" "12"
[2,] "Donald"  "62" "75"
[3,] "Ted"     "51" "43"
[4,] "Macro"   "21" "19"
[5,] "Carly"   " 2" " 1"
[6,] "Hillary" "14" "21"
[7,] "Berine"  "15" "19"
>
> #Got the Matrix result
>
> as.matrix(ABC)*(NCB)
     [,1]
[1,]   48
[2,] 4650
[3,] 2193
[4,]  399
[5,]    2
[6,]  294
[7,]  285
```

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```
#I tried by taking only single numeric variable
mean(poll_results.df[,2])

# I got the mean of 2nd column as 24.14286 , Want I noticed is by using two columns am getting error

mean(poll_results.df[,3])

#Mean of 3rd column  is 27.14286

# to get the mean of both columns together I tried  ColMeans command

colMeans(poll_results.df[2:3])

# I got result as      ABC      NCB
#                  24.14286 27.14286

#To setup the data frame and matrix for the dataset

as.matrix(poll_results.df)

#Got the Matrix result

as.matrix(ABC)*(NCB)

#As the poll results  is having numeric and characters , Multiplication of matrix column was not working
#So I have directly used columns name to perform the multiplication


C.df <- data.frame(Name,ABC,NCB)
# to setup the data frame
C.df

#Data frame result
```

71:1 (Top Level) R Script

Console | Terminal | Jobs

R 4.1.2 · ~/

```
> C.df <- data.frame(Name,ABC,NCB)
> # to setup the dataframe
> C.df
     Name ABC NCB
1     Jeb   4  12
2  Donald  62  75
3     Ted  51  43
4   Macro  21  19
5   Carly   2   1
6 Hillary  14  21
7  Berine  15  19
>
```