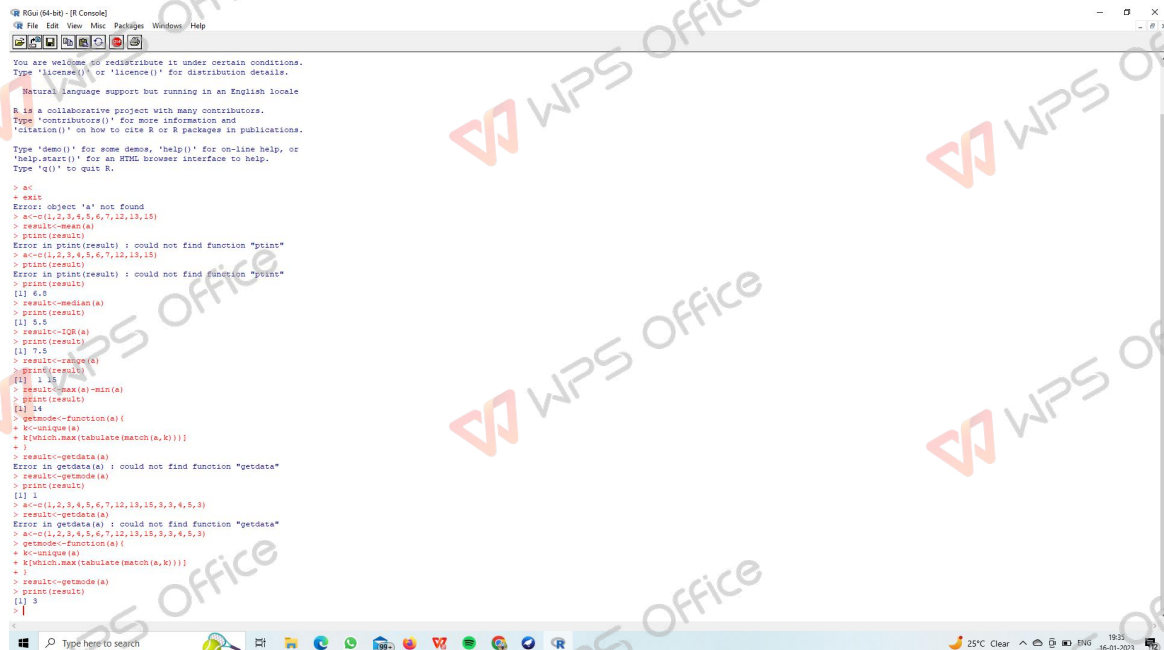


CSA1668-DATAWAREHOUSING AND DATA MINING

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192124168

1. Find the mean, median and mode of the data through R tool?



```
RStudio (64-bit) - R Console
File Edit View Misc Packages Windows Help

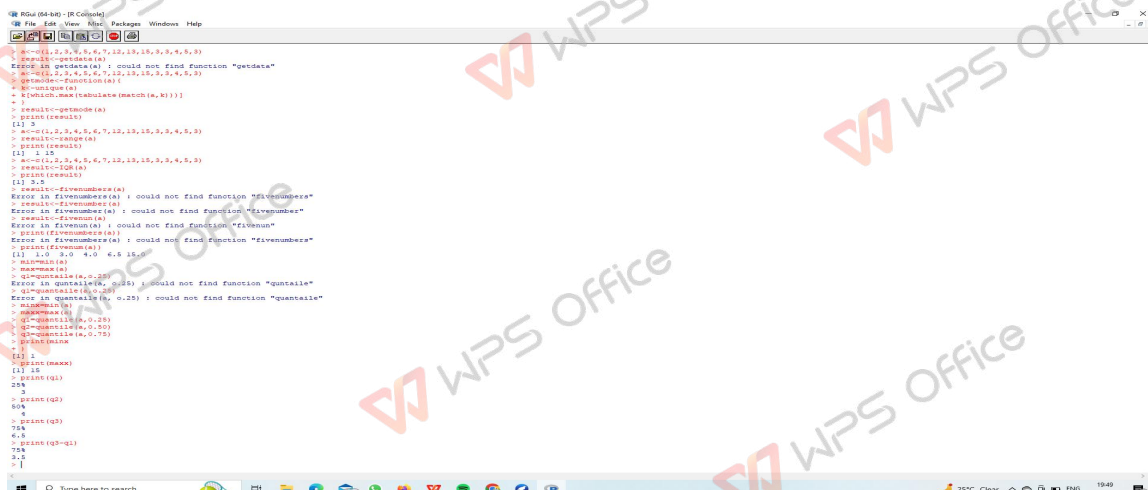
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> a
+ exit
Error: object 'a' not found
> a=c(1,2,3,4,5,6,7,12,13,15)
> result<-mean(a)
> print(result)
Error in print(result) : could not find function "print"
> a=c(1,2,3,4,5,6,7,12,13,15)
> print(result)
Error in print(result) : could not find function "print"
> print(result)
[1] 6.0
> result<-median(a)
> print(result)
[1] 5.5
> result<-IQR(a)
> print(result)
[1] 7.5
> result<-range(a)
> print(result)
[1] 1 15
> result<-max(a)-min(a)
> print(result)
[1] 14
> getmode<-function(a){
+ k<-unique(a)
+ k[which.max(table(match(a,k)))]
+ }
> result<-getmode(a)
Error in getmode(a) : could not find function "getmode"
> result<-getmode(a)
> print(result)
[1] 1
> a=c(1,2,3,4,5,6,7,12,13,15,3,4,5,3)
> result<-getmode(a)
Error in getmode(a) : could not find function "getmode"
> a=c(1,2,3,4,5,6,7,12,13,15,3,4,5,3)
> getmode<-function(a){
+ k<-unique(a)
+ k[which.max(table(match(a,k)))]
+ }
> result<-getmode(a)
> print(result)
[1] 3
> }
```

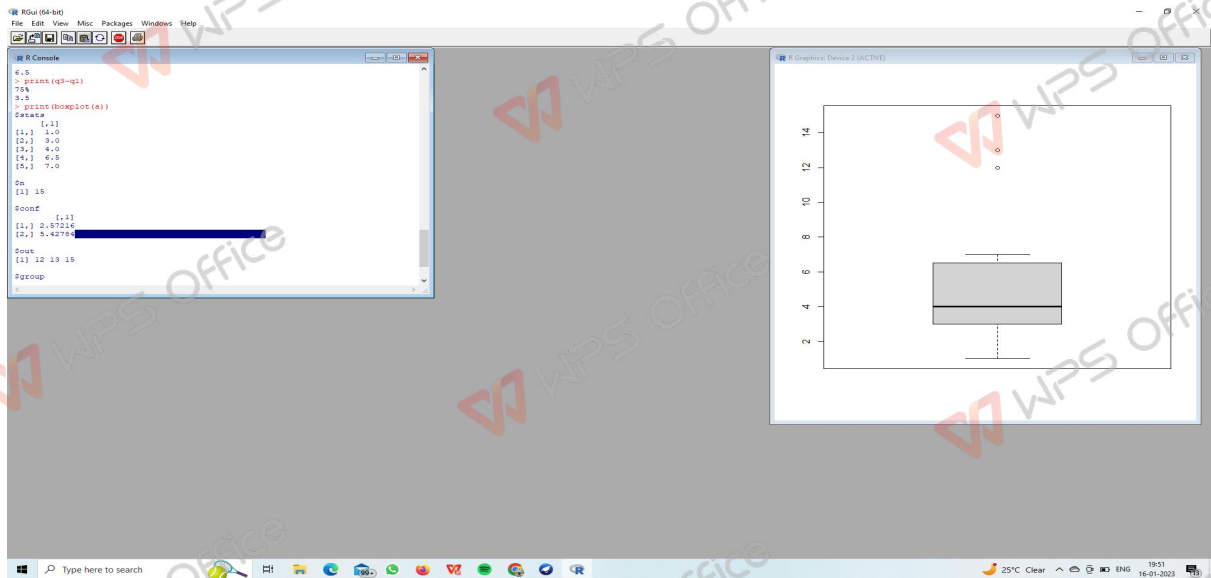
2. Find the Interquartile range, range and the five summary number using R tool?



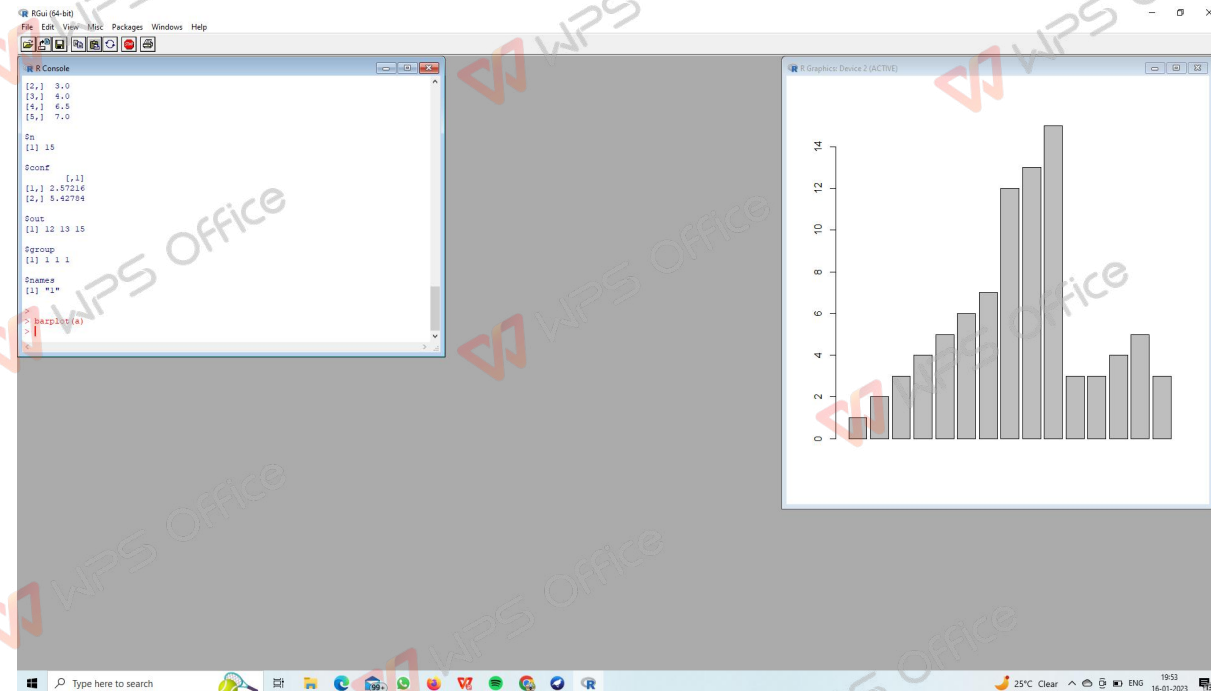
```
RStudio (64-bit) - R Console
File Edit View Misc Packages Windows Help

> a=c(1,2,3,4,5,6,7,12,13,15,3,4,5,3)
> result<-getmode(a)
Error in getmode(a) : could not find function "getmode"
> a=c(1,2,3,4,5,6,7,12,13,15,3,4,5,3)
> getmode<-function(a){
+ k<-unique(a)
+ k[which.max(table(match(a,k)))]
+ }
> result<-getmode(a)
> print(result)
[1] 3
> a=c(1,2,3,4,5,6,7,12,13,15,3,4,5,3)
> result<-IQR(a)
> print(result)
[1] 15
> result<-IQR(a)
> print(result)
[1] 3.5
> result<-fiveNumbers(a)
Error in fiveNumbers(a) : could not find function "fiveNumbers"
> result<-fiveNumbers(a)
Error in fiveNumbers(a) : could not find function "fiveNumbers"
> result<-fiveNum(a)
Error in fiveNum(a) : could not find function "fiveNum"
> print(fiveNumbers(a))
Error in fiveNumbers(a) : could not find function "fiveNumbers"
> print(fiveNumbers(a))
[1] 1.0 3.0 5.0 6.5 15.0
> minmax(a)
> maxmax(a)
> quantile(a, 0.25)
Error in quantile(a, 0.25) : could not find function "quantile"
> quantile(a, 0.25)
Error in quantile(a, 0.25) : could not find function "quantile"
> minmax(a)
> minmax(a)
[1] 1
> print(maxx)
[1] 15
> print(q1)
[1] 3
> print(q2)
[1] 5
> print(q3)
[1] 15
> print(q3-q1)
[1] 12
> }
```

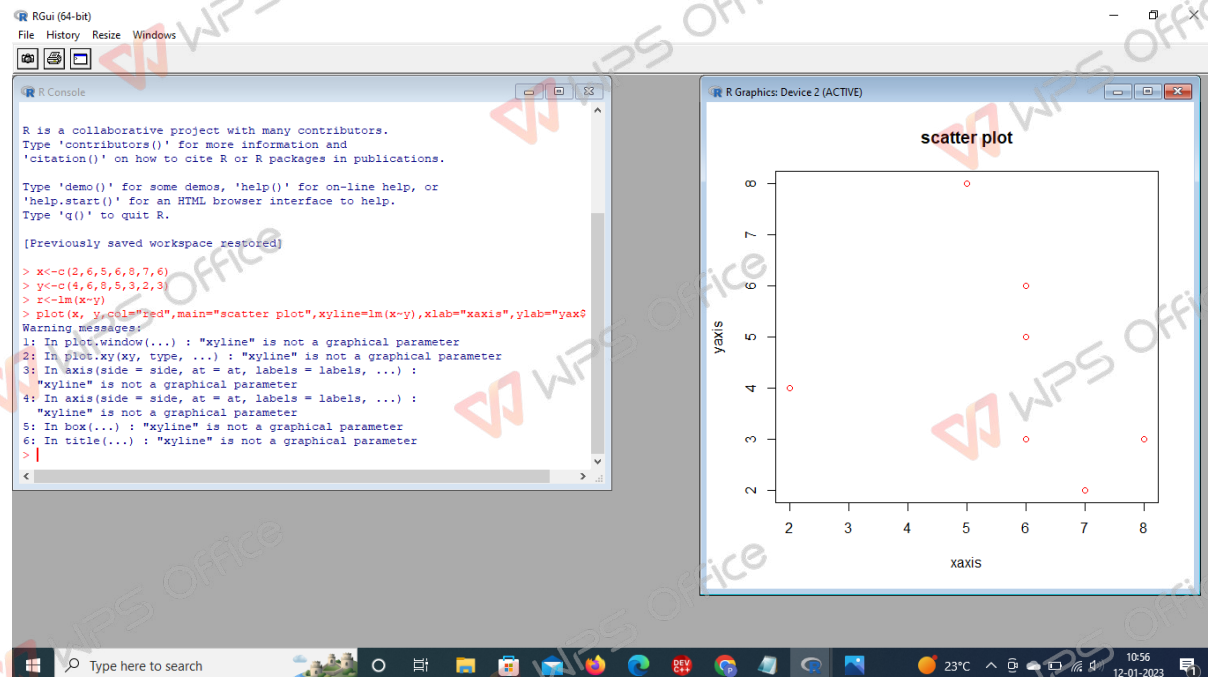
3. Plotting the boxplot graph using R tool?



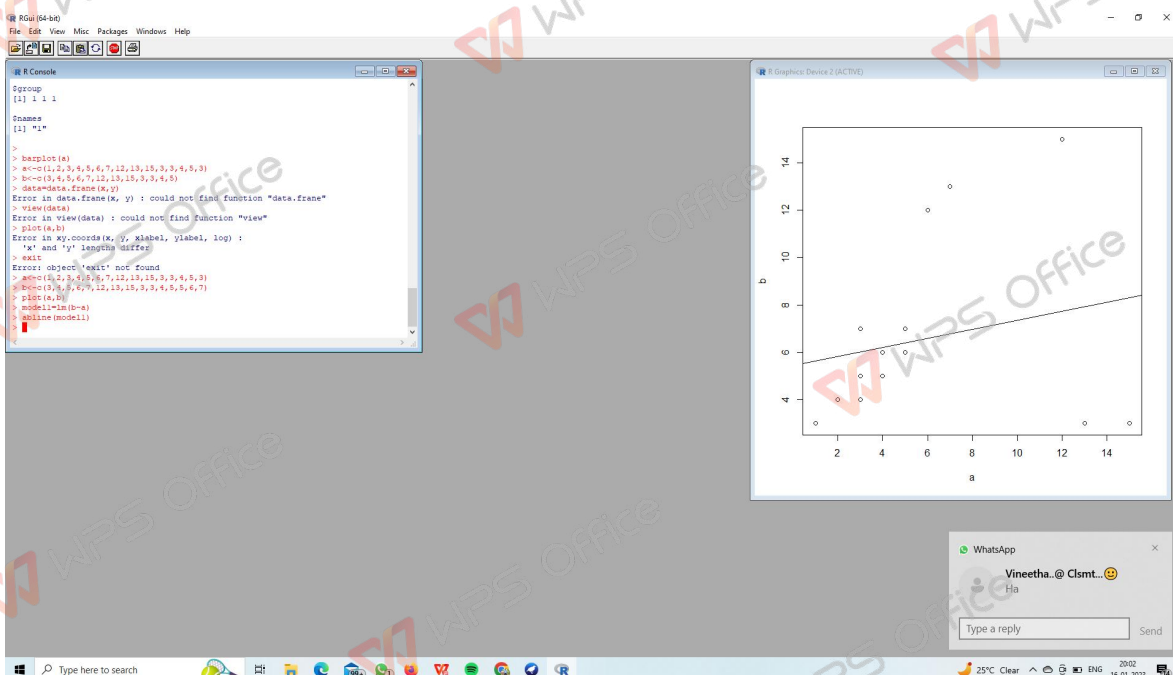
4. Plotting the barplot graph using R tool?



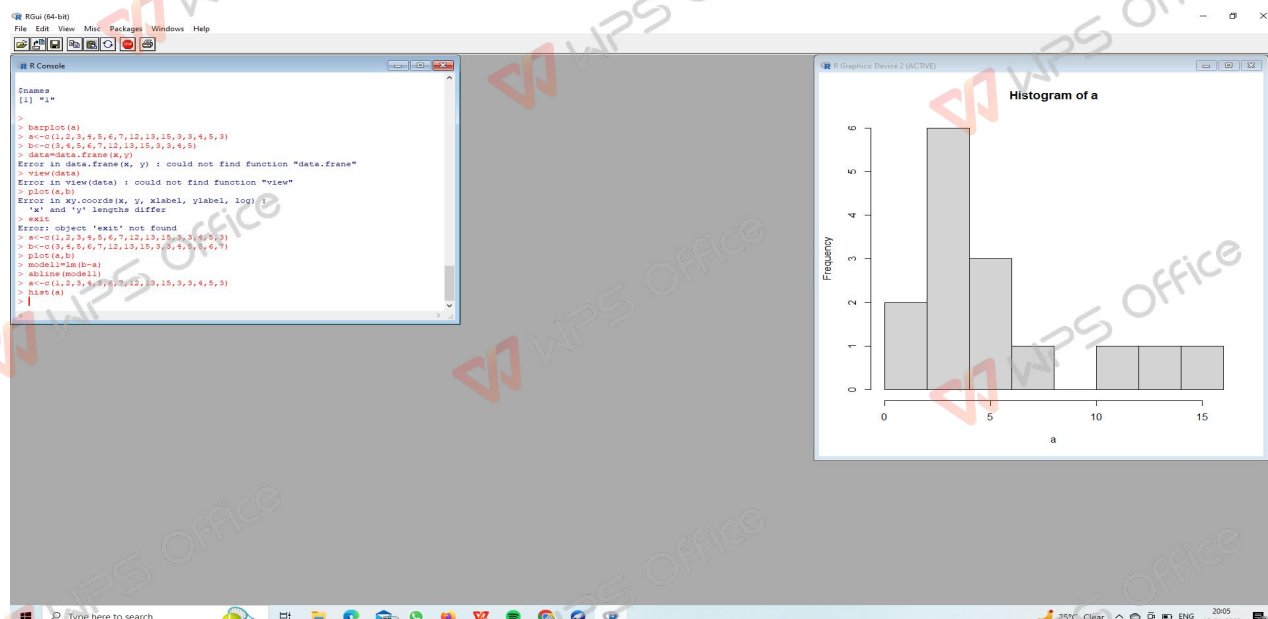
5. Plotting the scatterplot using R tool?



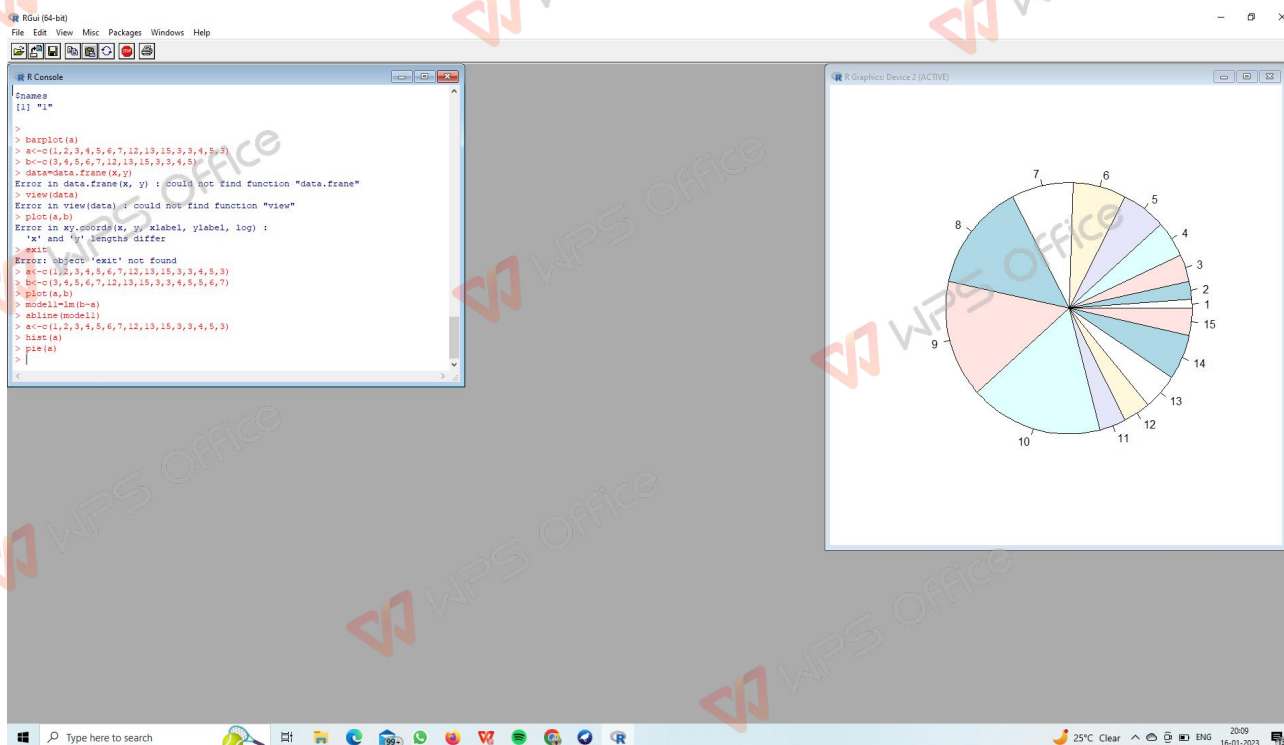
6. Linear regression through R tool?



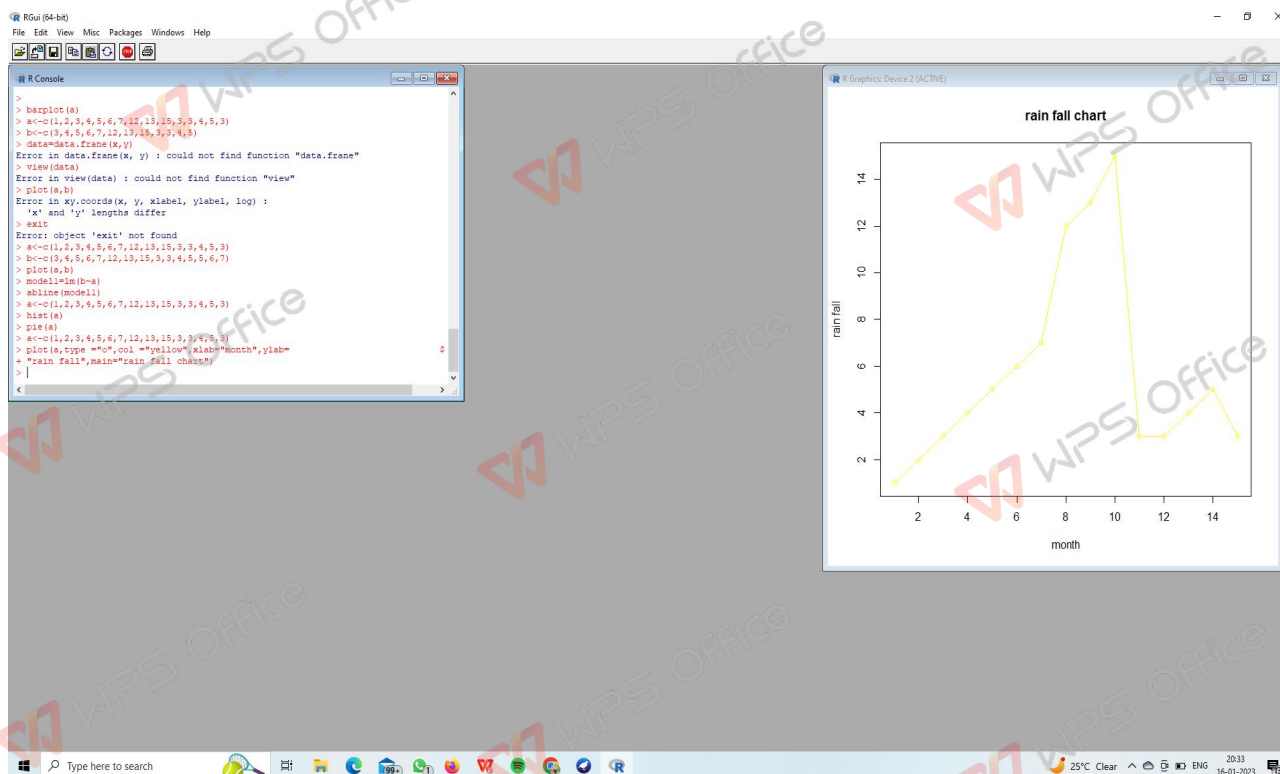
7. plotting histogram graph through the R tool?



8. using R program create a pie chart for data sample?



9. plotting the line chart graph through the R tool?



DATA PREPROCESSING

