

CSA1668-DATAWAREHOUSING AND DATA MINING

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

```
RGui (64-bit) - [R Console]
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[Previously saved workspace restored]

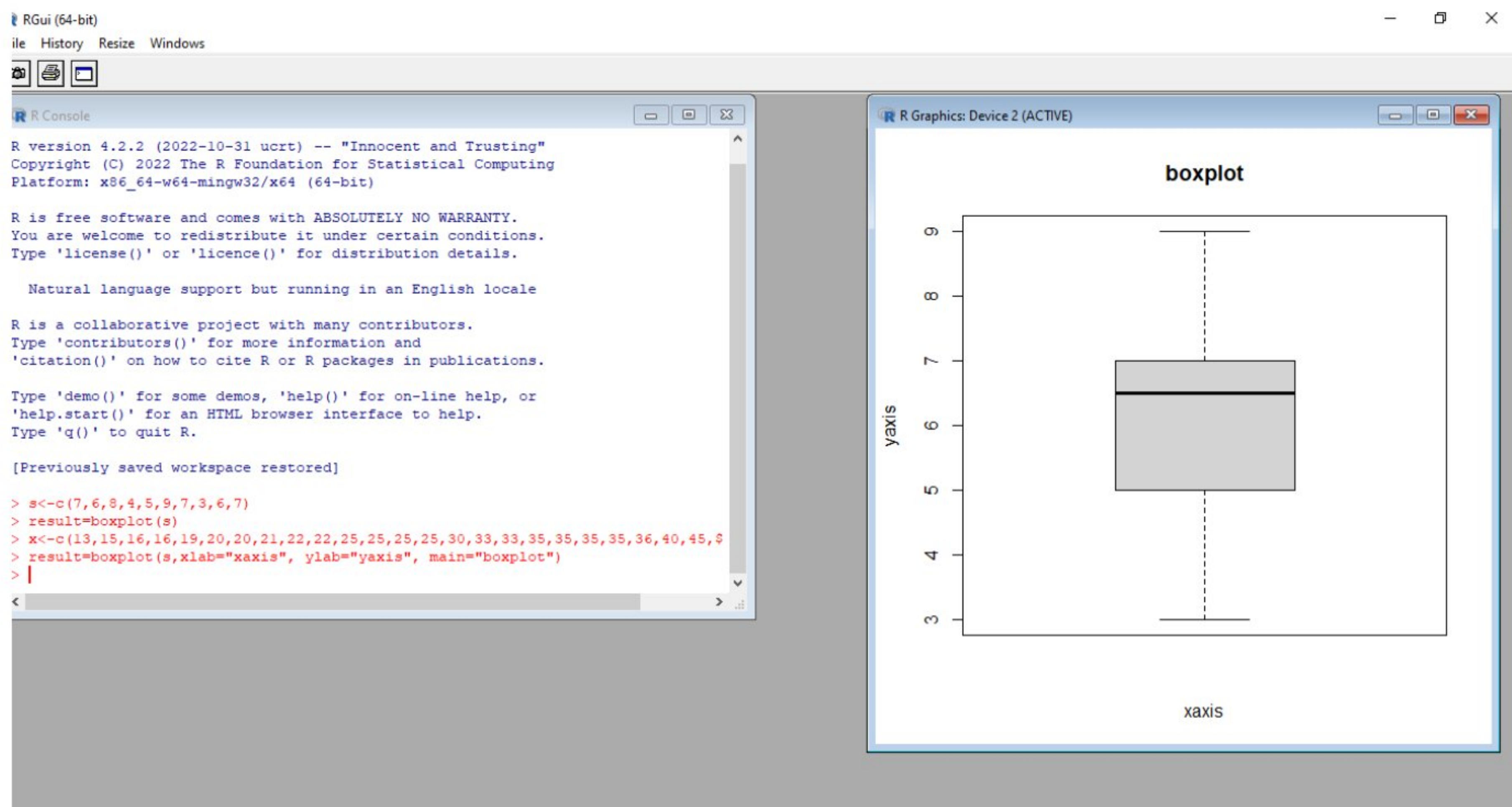
> s<-c(7,6,8,4,5,9,7,3,6,7)
> r=mean(s)
> e=median(s)
> print(r)
[1] 6.2
> print(e)
[1] 6.5
> s<-c(12,17,34,56,32,23,83,31,9,36)
> r=mean(s)
> e=median(s)
> print(r)
[1] 33.3
> print(e)
[1] 31.5
> getmode<-function(x)
+ {
+   uniqx<-unique(x)
+   tabulate<-tabulate(match(x,unique(x)))
+   uniqx[tabulate==max(tabulate)]
+ }
> s<-c(7,6,8,4,5,9,7,3,6,7)
> result=getmode(s)
> print(result)
[1] 7
> getmode<-function(x)
+ {
+   uniqx<-unique(x)
+   tabulate<-tabulate(match(x,unique(x)))
+   uniqx[tabulate==max(tabulate)]
+ }
> s<-c(22,7,8,8,8,9,9,6,5,4,3,3,3,3,9,9,9,9)
> result=getmode(s)
> print(result)
[1] 9
> |
```

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

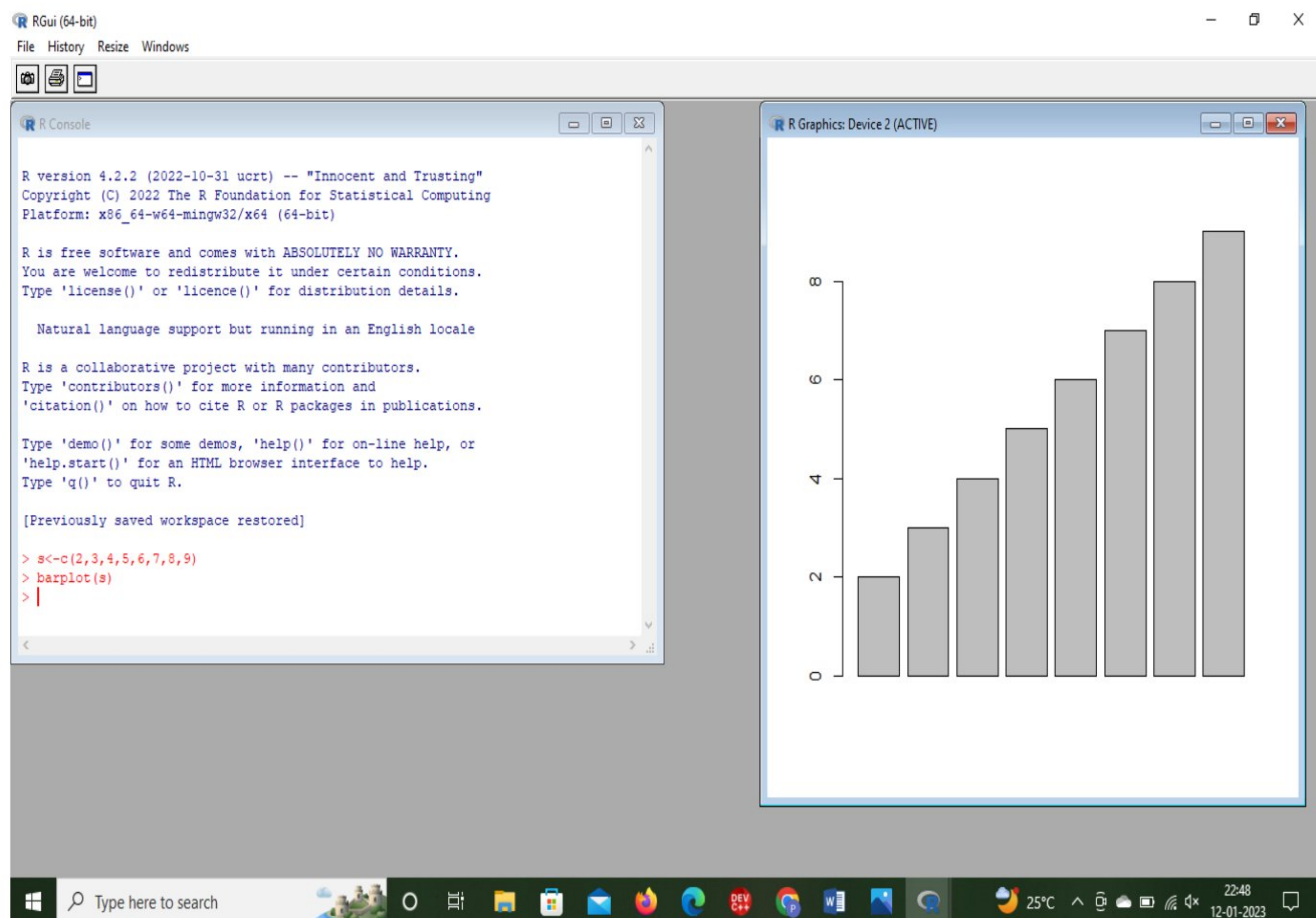
```
RGui (64-bit) - [R Console]
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> s<-c(3,4,7,8,9,10,11,11,12,13,13,14,16,19,20)
> r=IQR(s)
> print(r)
[1] 5
> s<-c(14,14,14,18,21,21,21,35,42,42)
> r=IQR(s)
> print(r)
[1] 16.5
> s<-c(3,4,7,8,9,10,11,11,12,13,13,14,16,19,20)
> r=range(s)
> print(r)
[1] 3 20
> s<-c(3,4,7,8,9,10,11,11,12,13,13,14,16,19,20)
> r=fivenum(s)
> print(r)
[1] 3.0 8.5 11.0 13.5 20.0
> s<-c(3,4,7,8,9,10,11,11,12,13,13,14,16,19,20)
> print(fivenum(s))
[1] 3.0 8.5 11.0 13.5 20.0
> minx=min(s)
> maxx=max(s)
> q1=quantile(s,0.25)
> q2=quantile(s,0.50)
> q3=quantile(s,0.75)
> print(minx)
[1] 3
> print(maxx)
[1] 20
> print(q1)
25%
8.5
> print(q2)
50%
11
> print(q3)
75%
13.5
> |
```

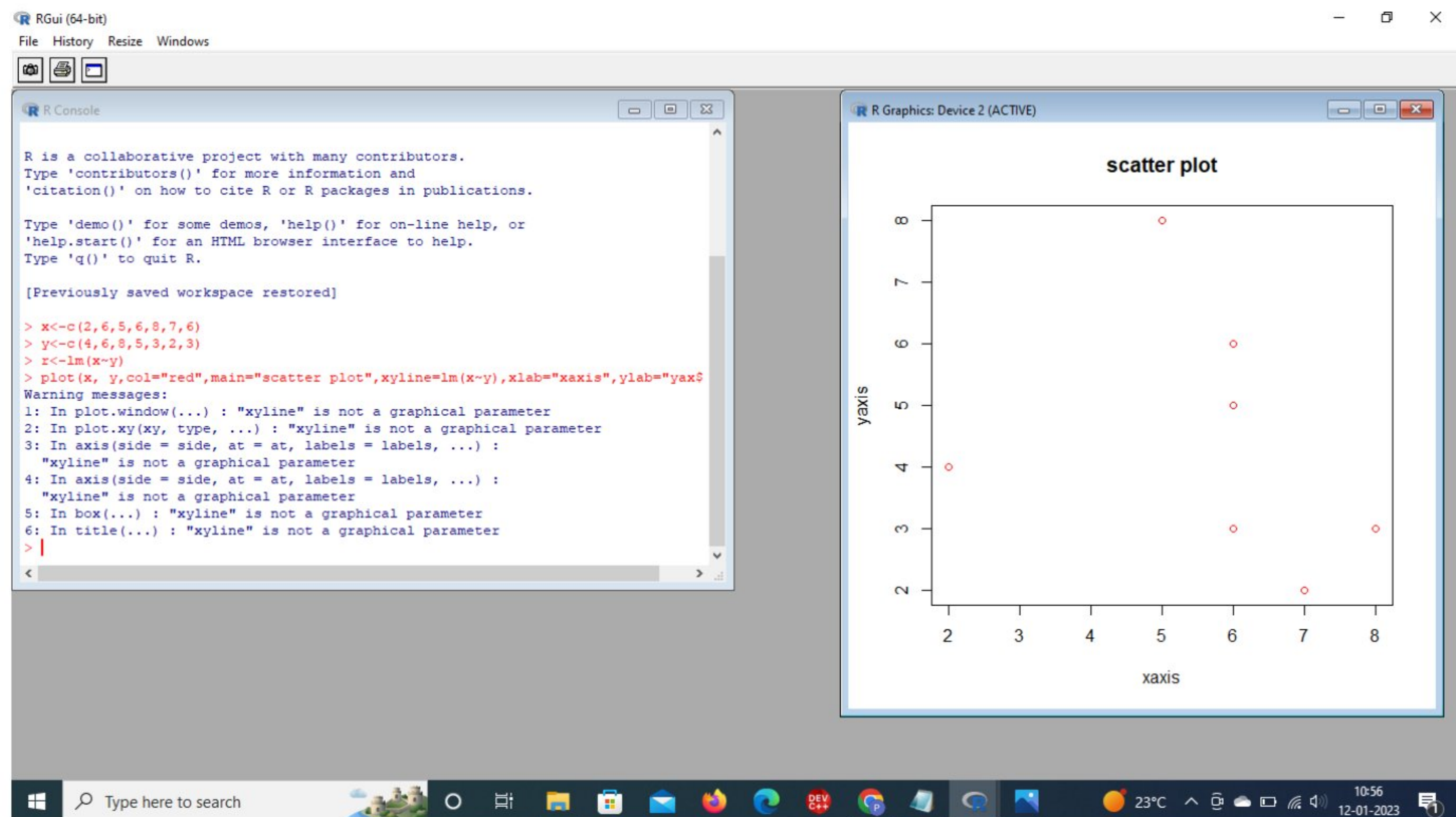

3. Plotting the boxplot graph using R tool?



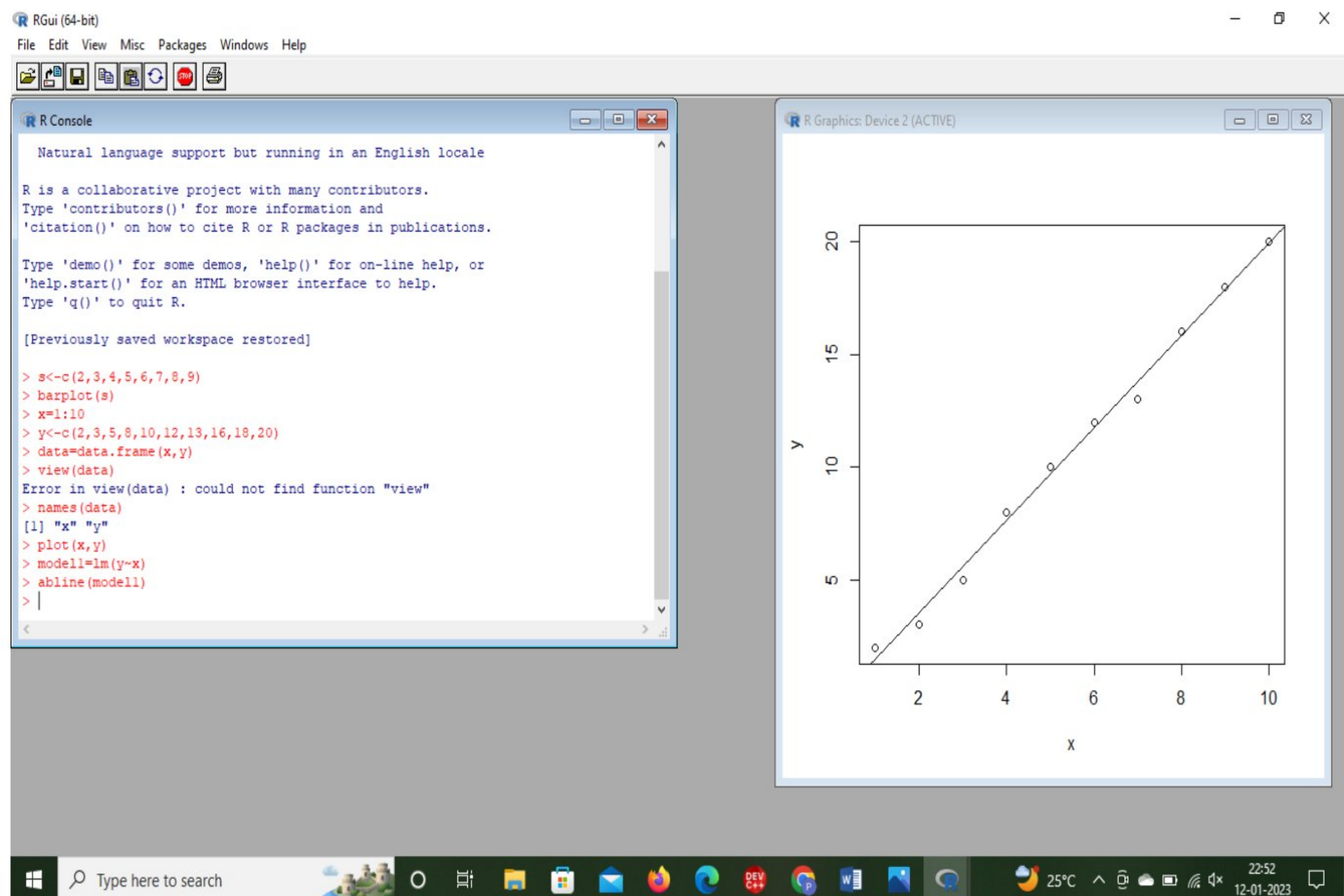
4. Plotting the barplot graph using R tool?



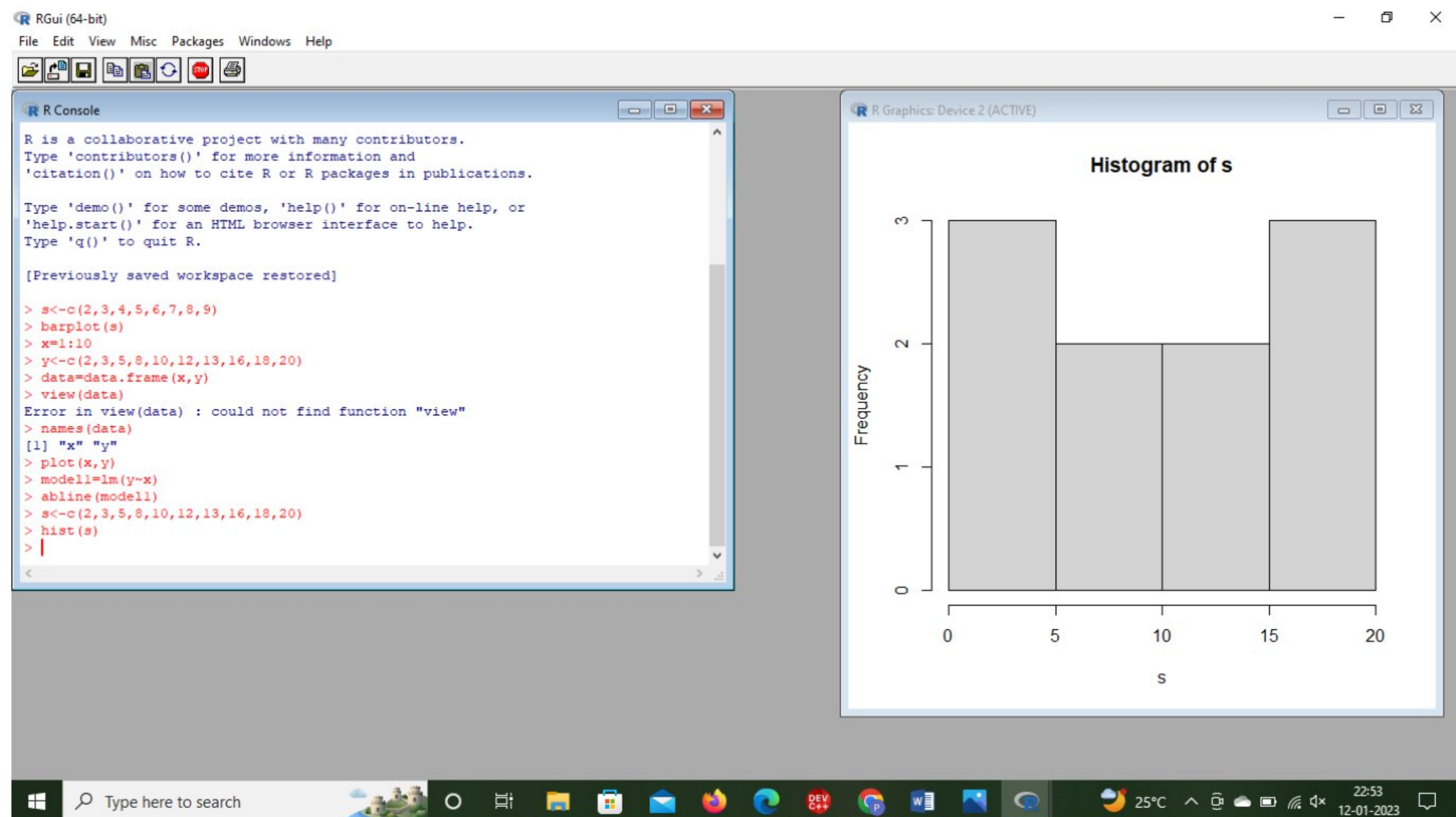
5. Plotting the scatterplot using R tool?



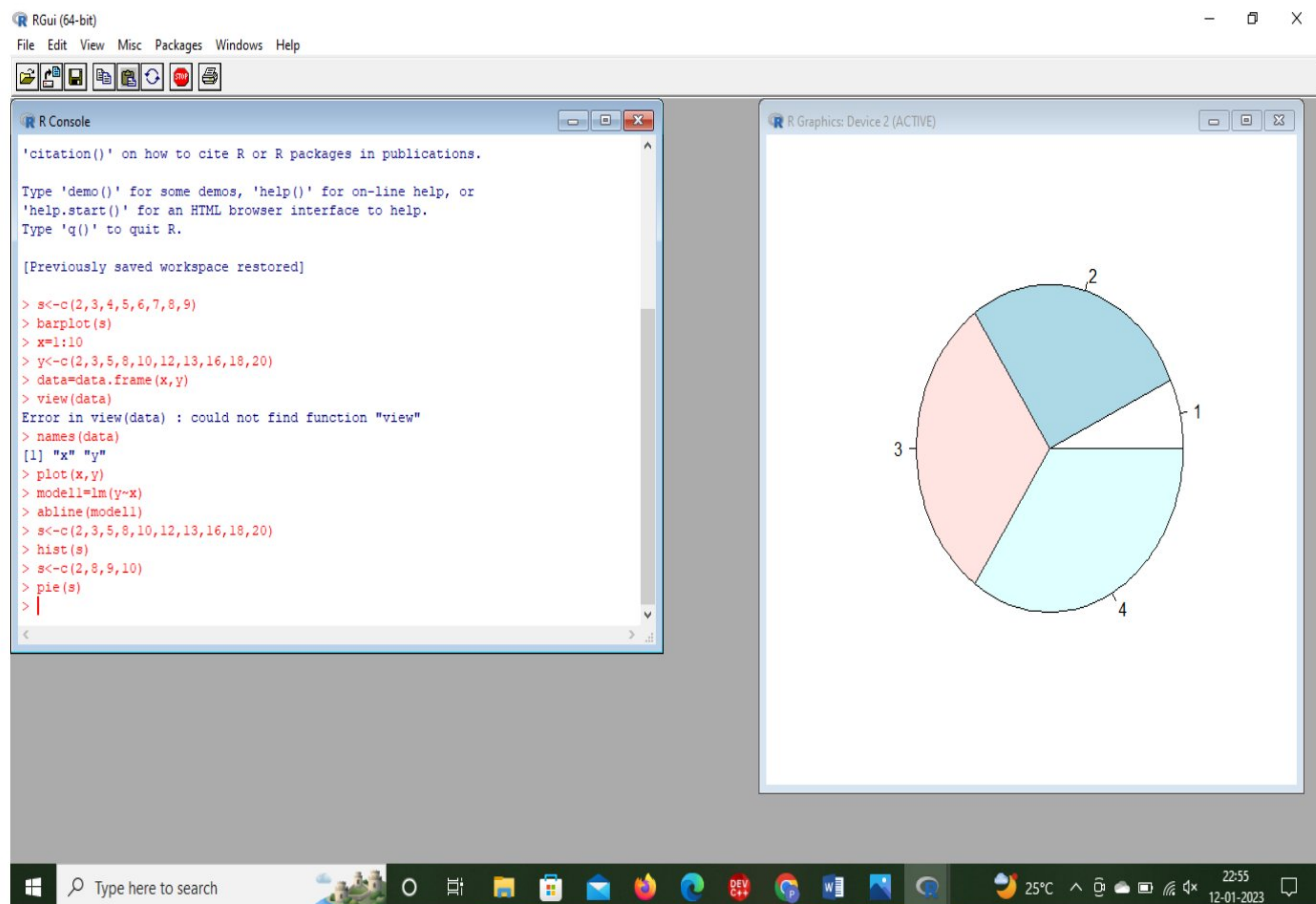
6. Linear regression through R tool?



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?

