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

```
> getmode<-function(v){
+ uniqv<-unique(v)
+ uniqv[which.max(tabulate(match(v,uniqv)))]}
> v<-c(7,5,5,4,4,4,8,9,2,2,2,4,3)
> r3<-getmode(v)
> print(r3)
[1] 4
> a<-c(7,6,8,4,5,9,7,3,6,7)
> r1<-mean(a)
> r2<-median(a)
> print(r1)
[1] 6.2
> print(r2)
[1] 6.5
>
```
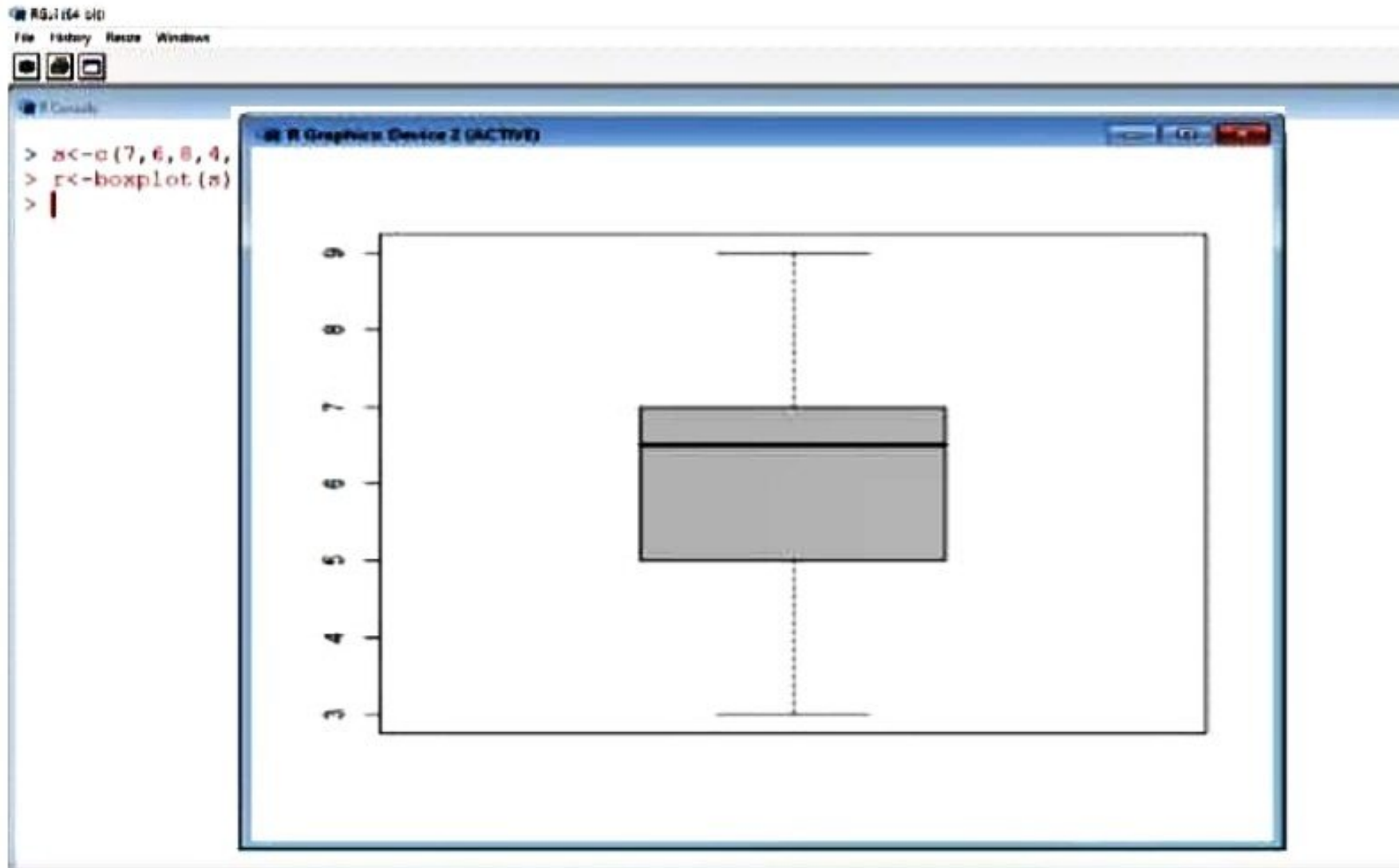
2. Find the Interquartile range, range and the five summary number using R tool?

```
> a<-c(3,4,5,5,5,6,7,8,9,9,15)
> r1<-IQR(a)
> print(r1)
[1] 3.5
> r2<-range(a)
> print(r2)
[1]  3 15
> r3<-fivenum(a)
> print(r3)
[1]  3.0  5.0  6.0  8.5 15.0
> |
```
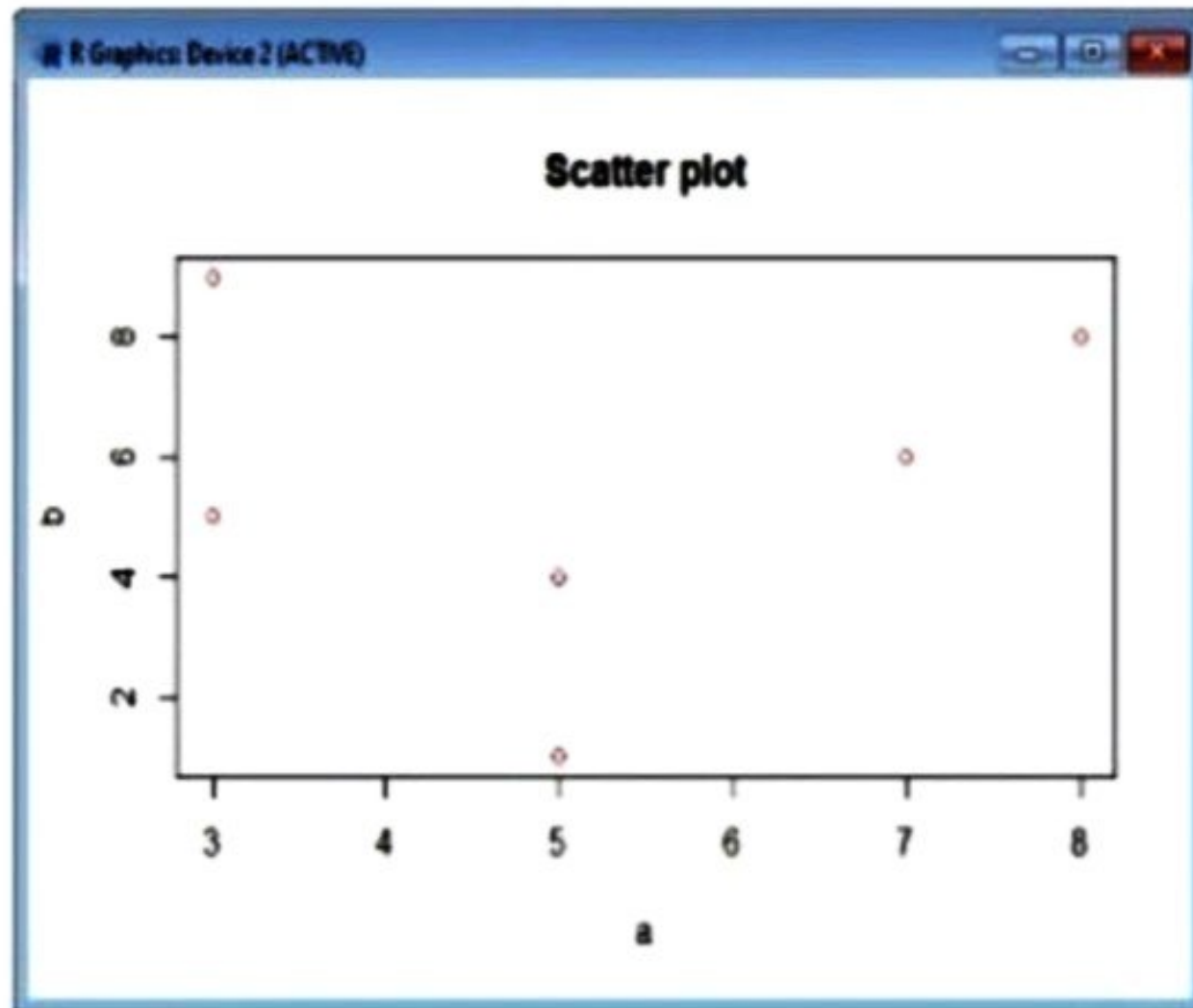
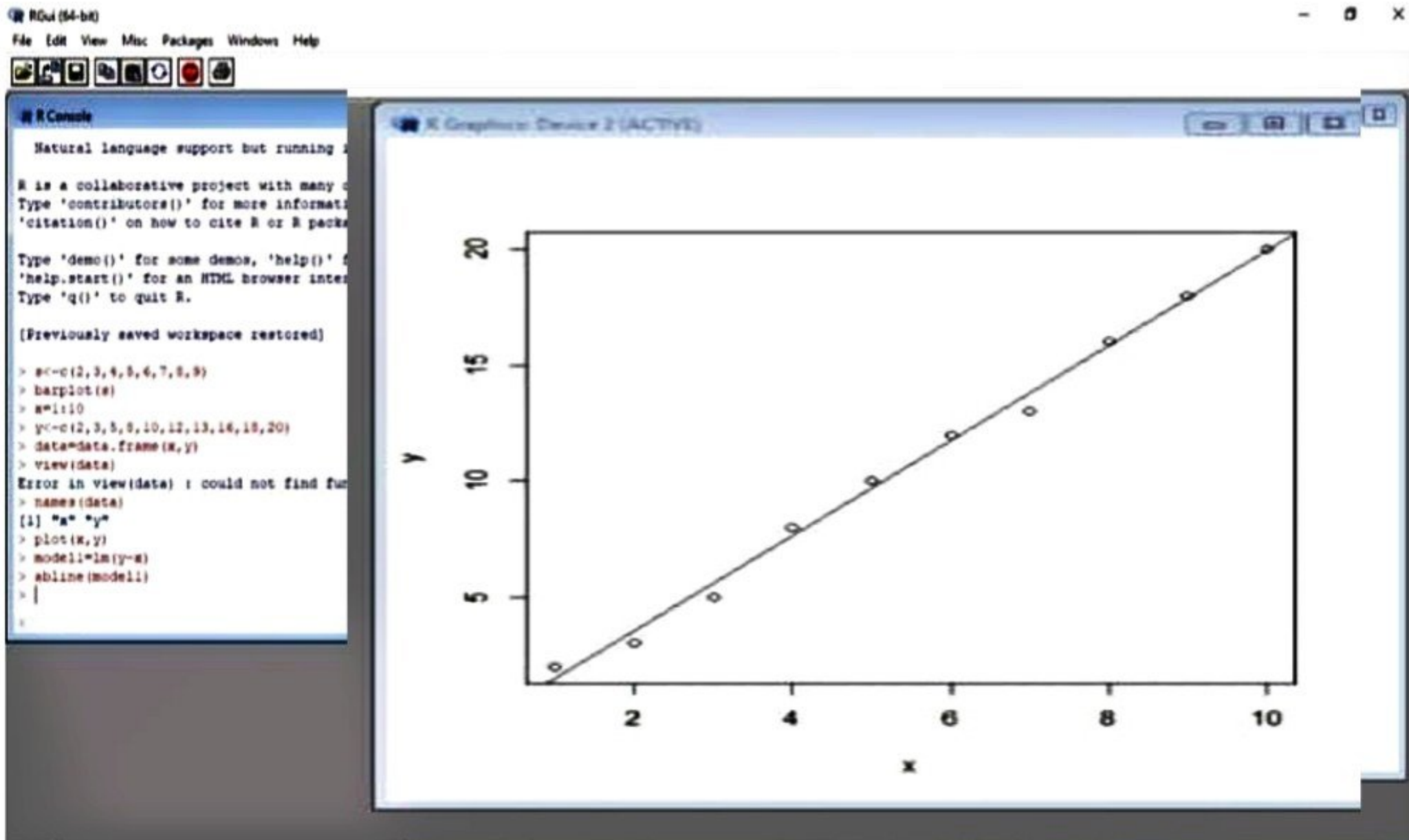# 3.Plotting the boxplot graph using R tool?
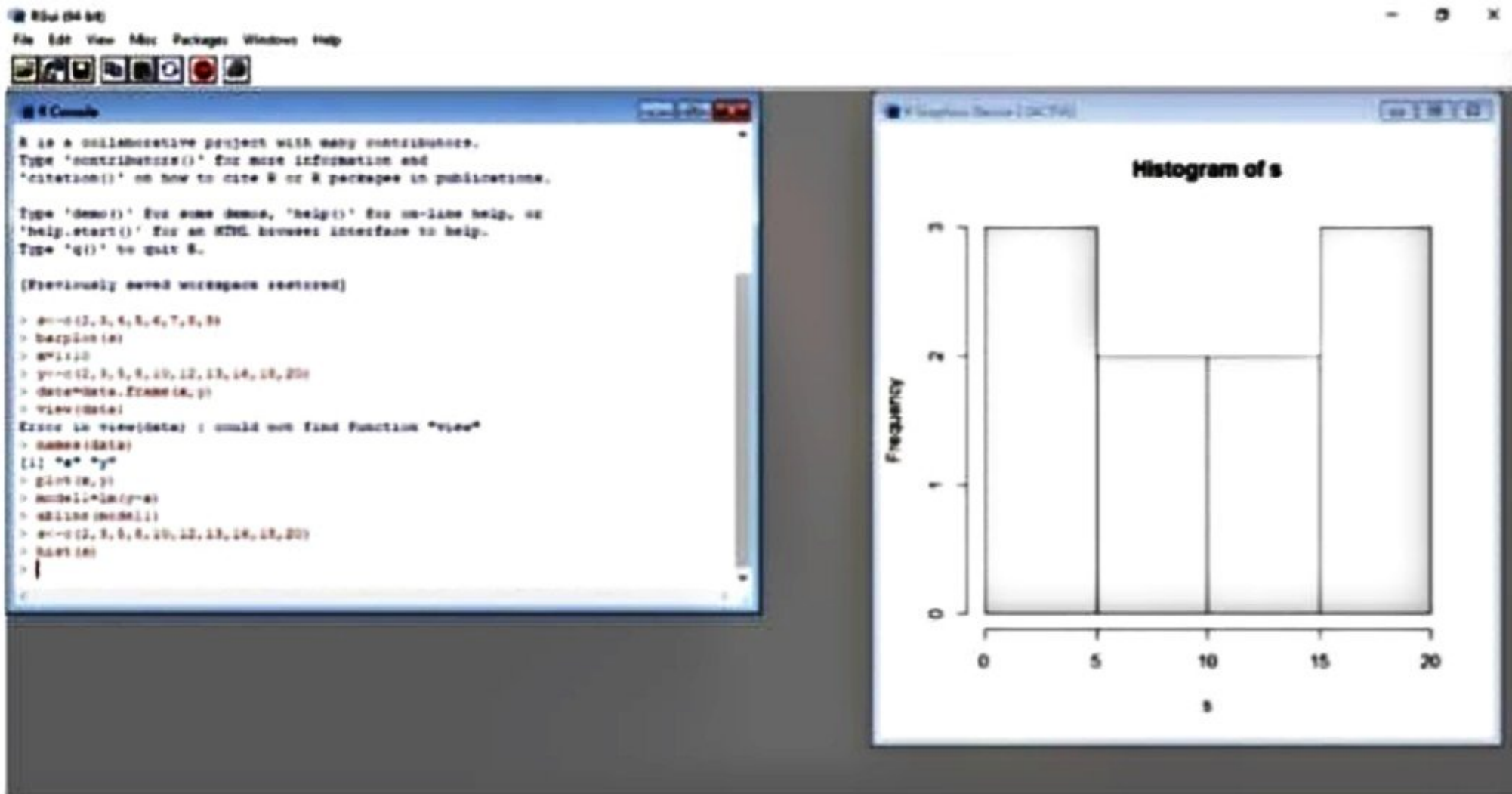
4. Plotting the barplot graph using R tool?

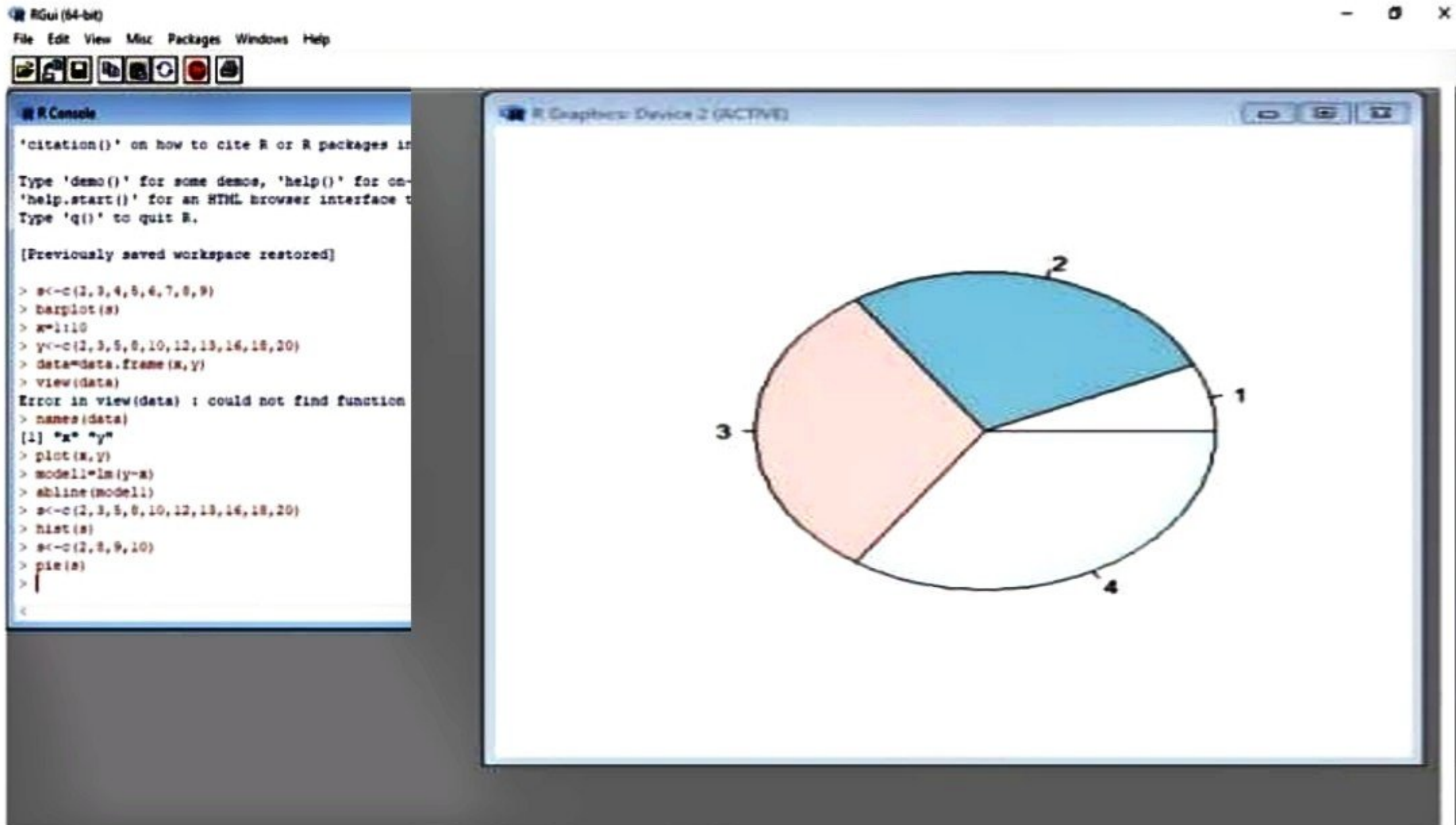# 5. Plotting the scatterplot using R tool?

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?

R Console

```
'help.start()' for an HTML browser
Type 'q()' to quit R.

[Previously saved workspace restored]

> s<-c(2,3,4,5,6,7,8,9)
> barplot(s)
> x=1:10
> y<-c(2,3,5,8,10,12,13,16,18,20)
> data=data.frame(x,y)
> view(data)
Error in view(data) : could not f
> names(data)
[1] "x" "y"
> plot(x,y)
> modell=lm(y~x)
> abline(modell)
> s<-c(2,3,5,8,10,12,13,16,18,20)
> hist(s)
> s<-c(2,8,9,10)
> pie(s)
> v <- c(7,12,28,3,41)
> plot(v,type = "o", col = "red",
.    main = "Rain fall chart")
>
```


Rain fall chart — line chart with Month (x-axis 1 to 5) and Rain fall (y-axis 10 to 40)