

Assignment No: 8

1. Pie Charts

```
pie(x,labels,radius,main,col,clockwise)
```

2. Bar Charts

```
barplot(H,xlab,ylab,main,names.arg,col)
```

3. Boxplot

```
boxplot(x,data,notch,varwidth,names,main)
```

4. Histogram

```
hist(V,main,xlab,xlim,ylim,breaks,col,border)
```

5. Line Graphs

```
plot(V,type,col,xlab,ylab)
```

6. Scatterplot

```
plot(x,y,main,xlab,ylab,xlim,ylim,axes)
```

7. Scatter Matrices

```
pairs(formula,data)
```

1.Pie Chart

Go to file/function

Addins

Project: (None)

Untitled1 x

Source on Save

Run

Source

1:1 (Top Level)

R Script

Console

```
> runs=c(21,62,10,53)
> players=c("yuvraj","sachin","Mark","Steve")
> runs
[1] 21 62 10 53
> players
[1] "yuvraj" "sachin" "Mark" "Steve"
> png(file="scorecard.png")
> pie(runs,players)
> getwd()
[1] "/home/yogesh"
> dev.off()
null device
1
> dev.off()
Error in dev.off() : cannot shut down device 1 (the null device)
> dev.off()
Error in dev.off() : cannot shut down device 1 (the null device)
> dev.off()
Error in dev.off() : cannot shut down device 1 (the null device)
> |
```

Environment

History

dev.off()

Files

Plots

Packages

Help

Viewer

R: Pie Charts

Find in Topic

pie {graphics}

R Documentation

Pie Charts

Description

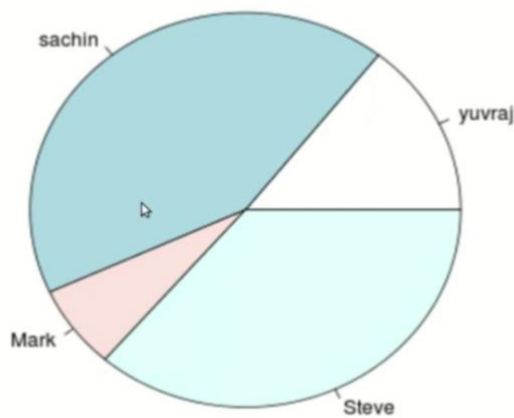
Draw a pie chart.

Usage

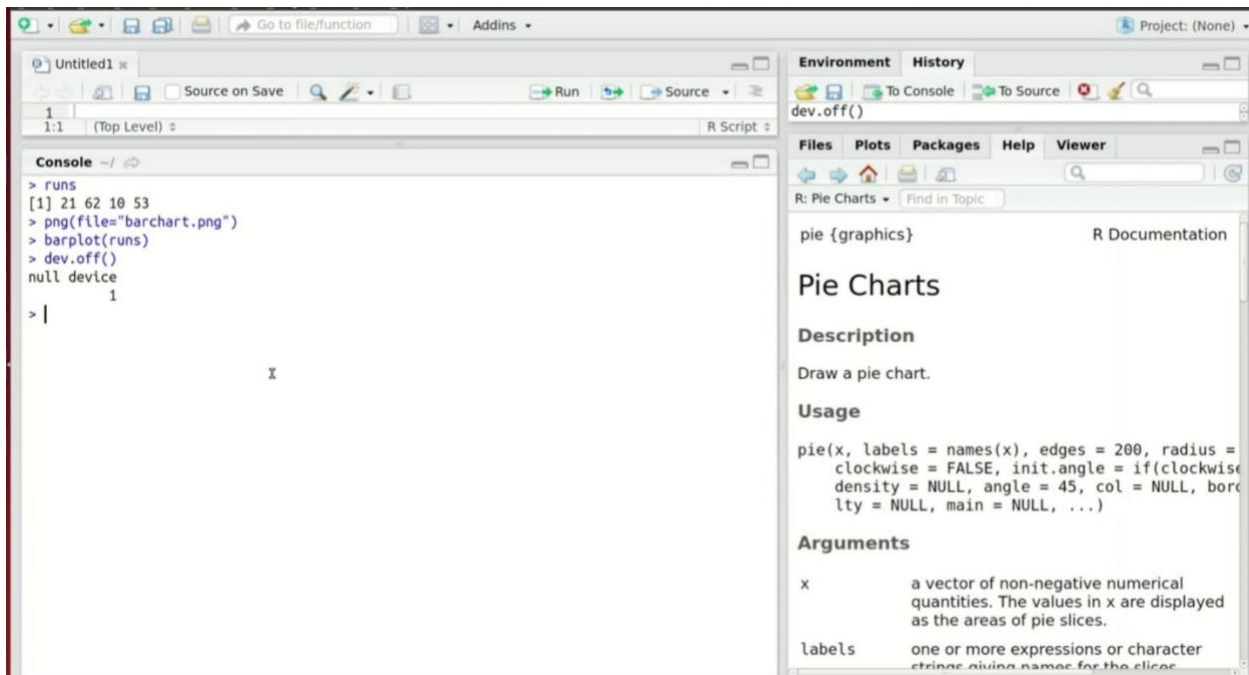
```
pie(x, labels = names(x), edges = 200, radius =
  clockwise = FALSE, init.angle = if(clockwise
  density = NULL, angle = 45, col = NULL, bord
  lty = NULL, main = NULL, ...)
```

Arguments

x	a vector of non-negative numerical quantities. The values in x are displayed as the areas of pie slices.
---	--



2.BAR CHART



```
> runs
[1] 21 62 10 53
> png(file="barchart.png")
> barplot(runs)
> dev.off()
null device
      1
> |
```

The screenshot shows the R Studio environment. The console pane on the left contains the following R code and output:

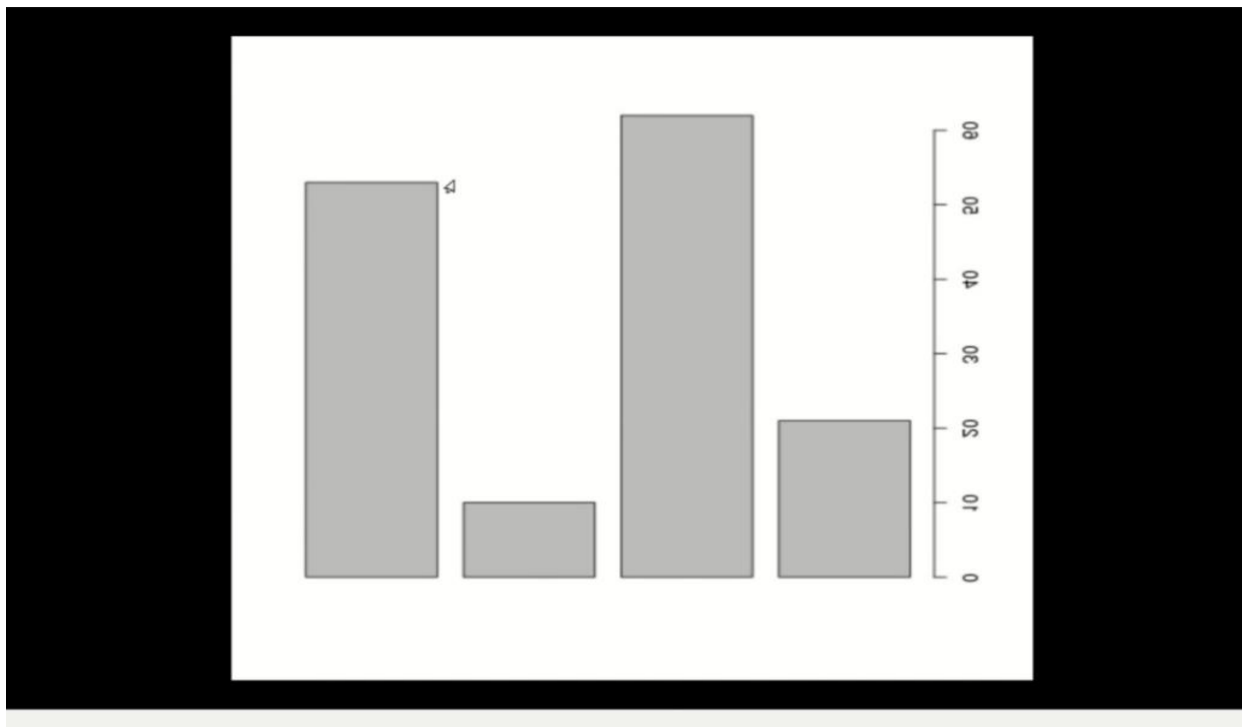
```
> runs
[1] 21 62 10 53
> png(file="barchart.png")
> barplot(runs)
> dev.off()
null device
      1
> |
```

The right-hand pane displays the R documentation for the `pie` function. The title is "Pie Charts". The description states: "Draw a pie chart." The usage is shown as:

```
pie(x, labels = names(x), edges = 200, radius =
  clockwise = FALSE, init.angle = if(clockwise
  density = NULL, angle = 45, col = NULL, bord
  lty = NULL, main = NULL, ...)
```

The arguments section lists:

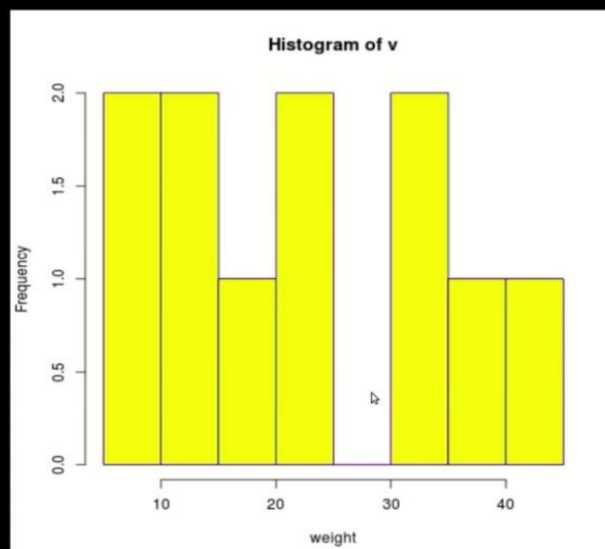
- `x`: a vector of non-negative numerical quantities. The values in `x` are displayed as the areas of pie slices.
- `labels`: one or more expressions or character strings giving names for the slices.



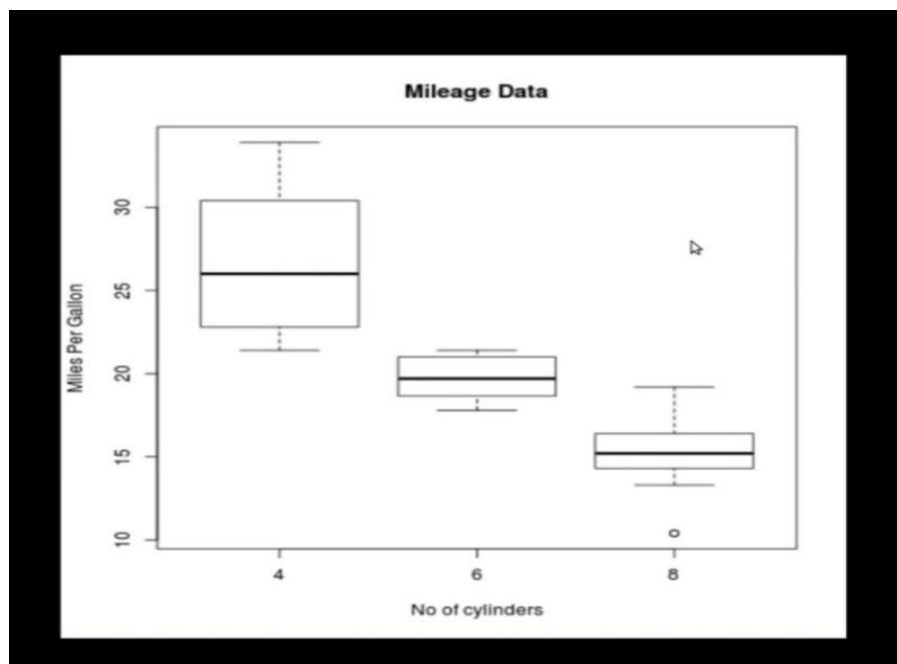
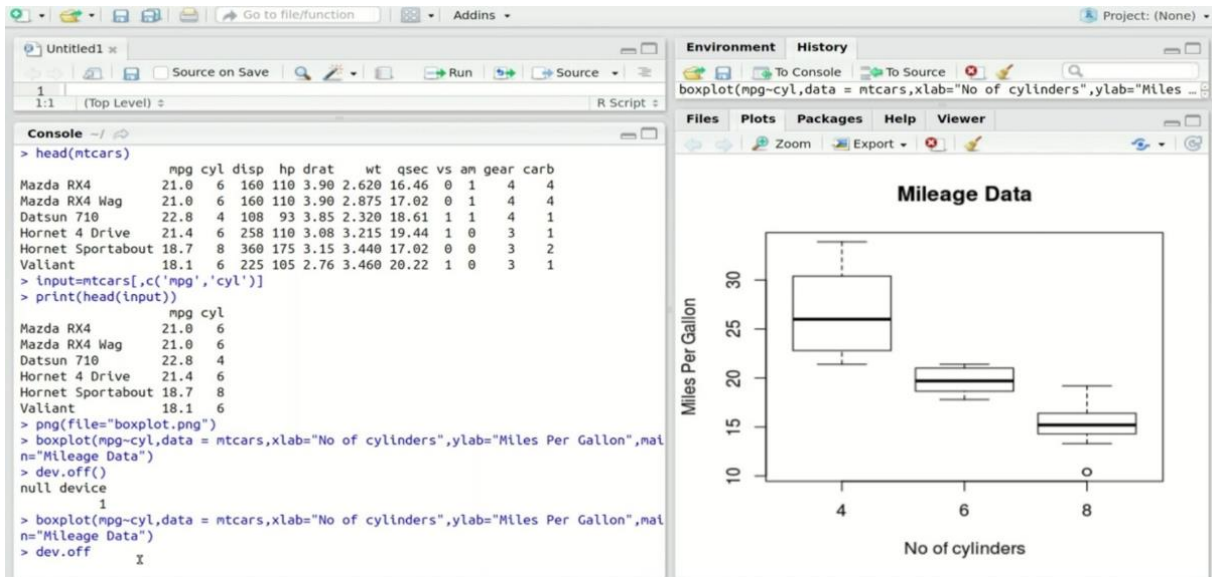
3.HISTOGRAM

```
Untitled1
1:1 (Top Level)
R Script

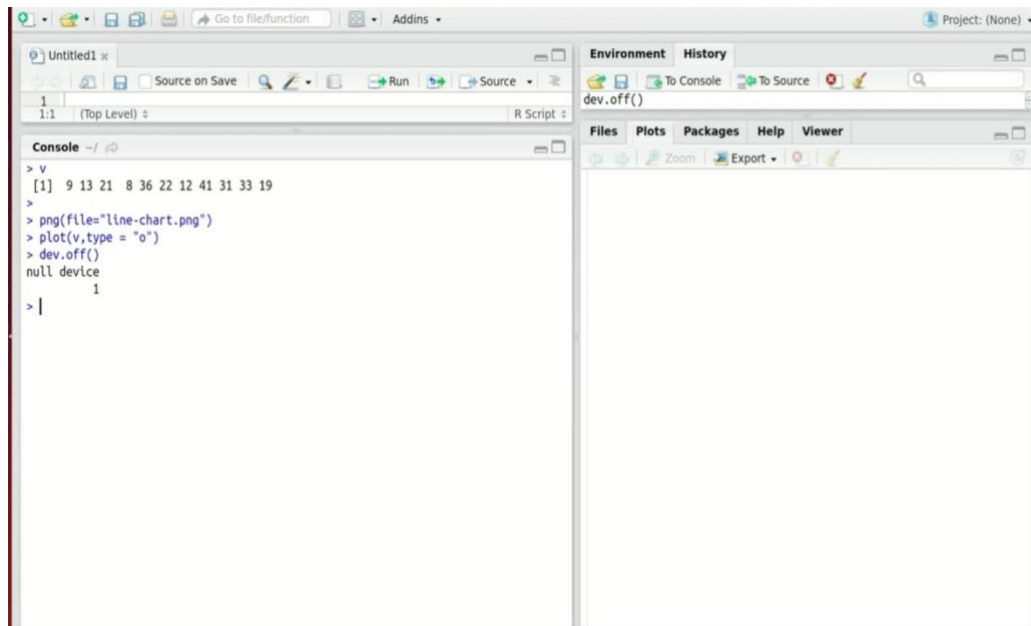
> v
Error: object 'v' not found
> v=c(9,13,21,8,36,22,12,41,31,33,19)
> png(file="histogram.png")
> hist(v,xlab="weight",col="yellow",border="blue")
> dev.off
function (which = dev.cur())
{
  if (which == 1)
    stop("cannot shut down device 1 (the null device)")
  .External(C_devoff, as.integer(which))
  dev.cur()
}
<bytecode: 0x41fc8e8>
<environment: namespace:grDevices>
> dev.off()
null device
      1
> |
```



4. BOX PLOT

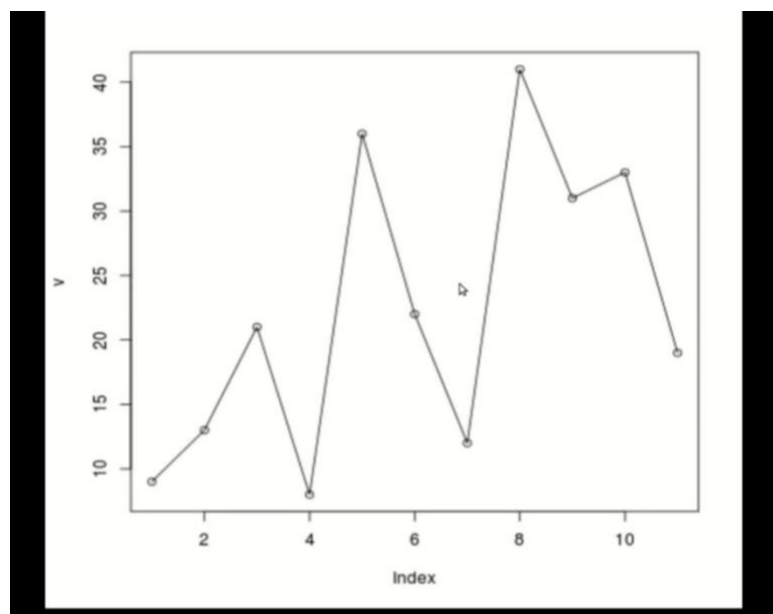


4.LINE CHART

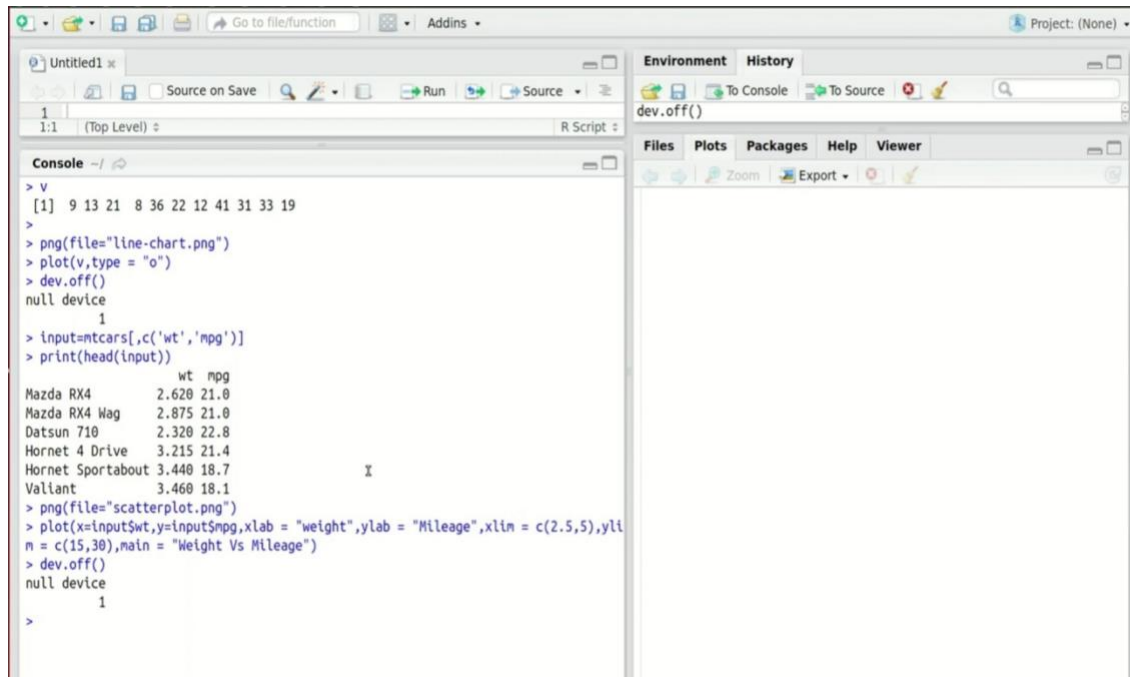


```
> v
[1] 9 13 21 8 36 22 12 41 31 33 19
>
> png(file="line-chart.png")
> plot(v,type = "o")
> dev.off()
null device
      1
> |
```

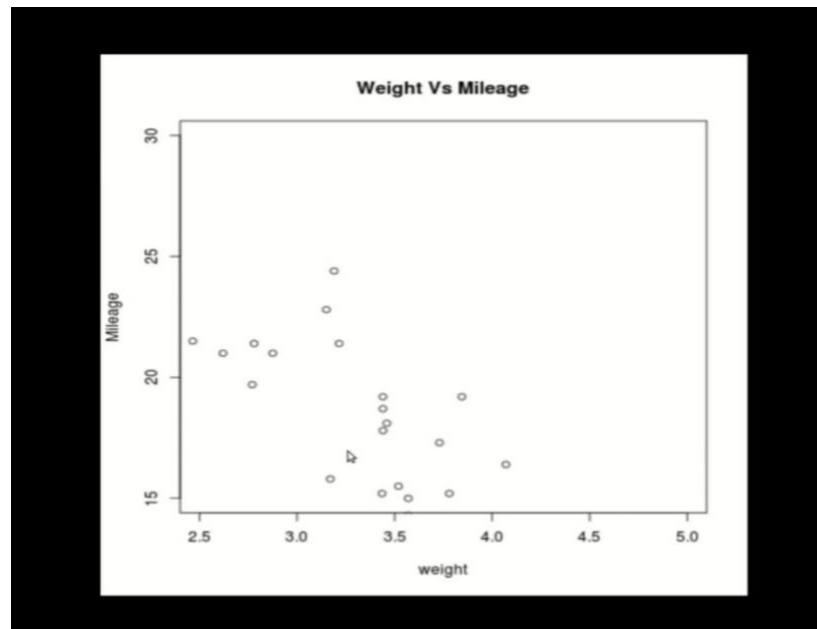
The screenshot shows the R Studio environment. The console pane displays the execution of R code to create a line chart. The code defines a vector `v` with 11 values, sets the output file to `line-chart.png`, and uses `plot(v, type = "o")` to generate the chart. The `dev.off()` command is used to save the plot to a file. The Environment pane shows the current session state, including the variable `v` and the `dev.off()` function.



5. SCATTER PLOT



```
1  
1:1 (Top Level) ↕ R Script  
Environment History  
dev.off()  
Files Plots Packages Help Viewer  
Zoom Export  
> v  
[1] 9 13 21 8 36 22 12 41 31 33 19  
>  
> png(file="line-chart.png")  
> plot(v,type = "o")  
> dev.off()  
null device  
1  
> input=mtcars[,c('wt','mpg')]  
> print(head(input))  
      wt  mpg  
Mazda RX4      2.620 21.0  
Mazda RX4 Wag  2.875 21.0  
Datsun 710     2.320 22.8  
Hornet 4 Drive 3.215 21.4  
Hornet Sportabout 3.440 18.7  
Valiant       3.460 18.1  
> png(file="scatterplot.png")  
> plot(x=input$wt,y=input$mpg,xlab = "weight",ylab = "Mileage",xlim = c(2.5,5),ylim = c(15,30),main = "Weight Vs Mileage")  
> dev.off()  
null device  
1  
>
```



6. SCATTERPLOT MATRICES

