Week1&2 Exercises in R

```
In [3]: install.packages("xlsx", dependencies = TRUE)

also installing the dependencies 'processx', 'diffobj', 'rematch2', 'brio', 'callr', 'cli', 'desc', 'ellipsis', 'lifecy cle', 'pkgload', 'praise', 'ps', 'rlang', 'waldo', 'withr', 'rex', 'rJava', 'xlsxjars', 'rprojroot', 'testthat', 'covr'
```

There are binary versions available but the source versions are later:

3.5.2	3.7.0	TRUE
0.3.4	0.3.5	TRUE
1.1.2	1.1.3	TRUE
3.7.0	3.7.2	FALSE
2.5.0	3.4.0	TRUE
1.3.0	1.4.2	FALSE
1.0.0	1.0.2	FALSE
1.2.1	1.3.0	FALSE
1.6.0	1.7.1	TRUE
0.4.11	1.0.5	TRUE
0.2.5	0.4.0	FALSE
2.4.2	2.5.0	FALSE
1.2.0	1.2.1	FALSE
1.0-4	1.0-6	TRUE
2.0.2	2.0.3	FALSE
3.0.2	3.1.4	TRUE
3.5.1	3.6.1	TRUE
	0.3.4 1.1.2 3.7.0 2.5.0 1.3.0 1.0.0 1.2.1 1.6.0 0.4.11 0.2.5 2.4.2 1.2.0 1.0-4 2.0.2 3.0.2	3.5.2 3.7.0 0.3.4 0.3.5 1.1.2 1.1.3 3.7.0 3.7.2 2.5.0 3.4.0 1.3.0 1.4.2 1.0.0 1.0.2 1.2.1 1.3.0 1.6.0 1.7.1 0.4.11 1.0.5 0.2.5 0.4.0 2.4.2 2.5.0 1.2.0 1.2.1 1.0-4 1.0-6 2.0.2 2.0.3 3.0.2 3.1.4

binary source needs compilation

Binaries will be installed

package 'processx' successfully unpacked and MD5 sums checked package 'diffobj' successfully unpacked and MD5 sums checked package 'brio' successfully unpacked and MD5 sums checked package 'brio' successfully unpacked and MD5 sums checked package 'cli' successfully unpacked and MD5 sums checked package 'ellipsis' successfully unpacked and MD5 sums checked package 'praise' successfully unpacked and MD5 sums checked package 'ps' successfully unpacked and MD5 sums checked package 'rlang' successfully unpacked and MD5 sums checked package 'rJava' successfully unpacked and MD5 sums checked package 'xlsxjars' successfully unpacked and MD5 sums checked package 'testthat' successfully unpacked and MD5 sums checked package 'covr' successfully unpacked and MD5 sums checked package 'xlsx' successfully unpacked and MD5 sums checked package 'xlsx' successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\Sravanthi\AppData\Local\Temp\RtmpI597wp\downloaded_packages

```
installing the source packages 'callr', 'desc', 'lifecycle', 'pkgload', 'waldo', 'withr', 'rex', 'rprojroot'

Warning message in install.packages("xlsx", dependencies = TRUE):
    "installation of package 'callr' had non-zero exit status"Warning message in install.packages("xlsx", dependencies = TRUE):
    "installation of package 'lifecycle' had non-zero exit status"Warning message in install.packages("xlsx", dependencies = TRUE):
    "installation of package 'waldo' had non-zero exit status"Warning message in install.packages("xlsx", dependencies = TRUE):
    "installation of package 'pkgload' had non-zero exit status"
```

```
In [13]: # Importing necessary packages
library('magrittr')

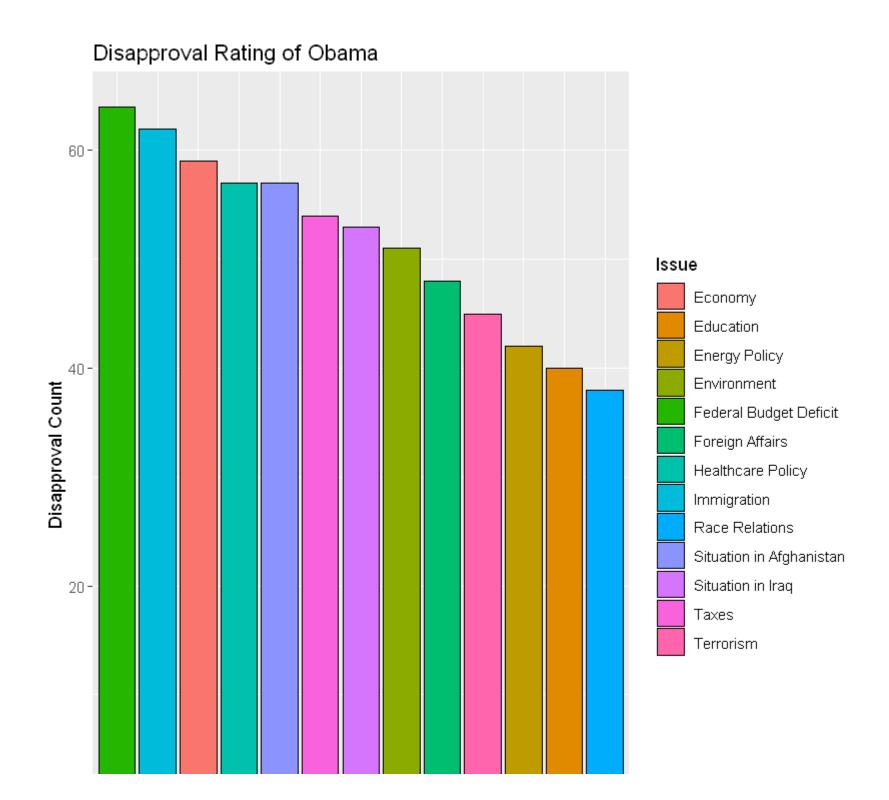
Data = paste(getwd(), '/obama-approval-ratings.xls', sep = '')
Obama_Ratings = xlsx::read.xlsx(Data, sheetIndex = 1, stringsAsFactors = FALSE)

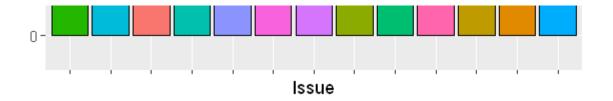
# Examine data
Obama_Ratings
```

Issue	Approve	Disapprove	None
Race Relations	52	38	10
Education	49	40	11
Terrorism	48	45	7
Energy Policy	47	42	11
Foreign Affairs	44	48	8
Environment	43	51	6
Situation in Iraq	41	53	6
Taxes	41	54	5
Healthcare Policy	40	57	3
Economy	38	59	3
Situation in Afghanistan	36	57	7
Federal Budget Deficit	31	64	5
Immigration	29	62	9

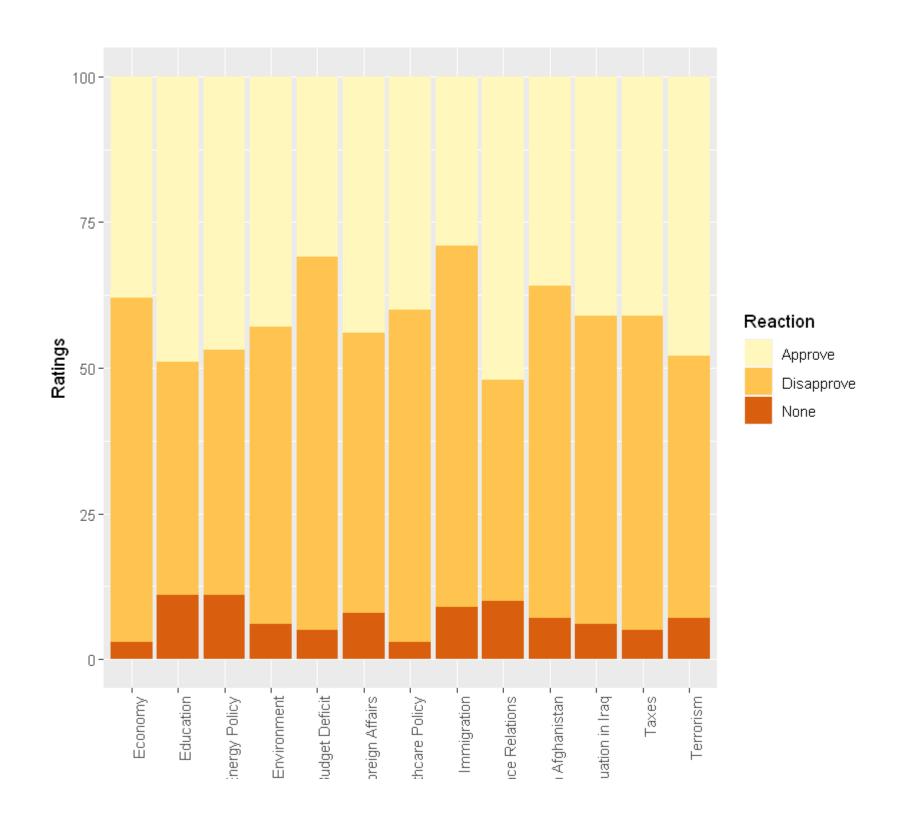
```
In [16]: library(ggplot2)
```

Barchart - R



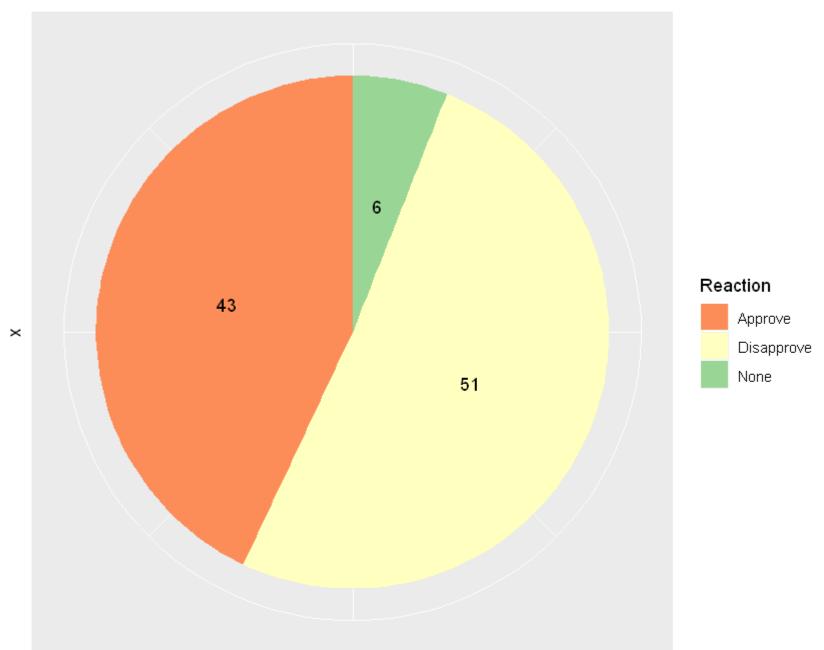


Stacked Bar Chart - R



Pie Chart - R

Reaction on Environment Issue in Obama Era



Ratings

Donut chart - R

