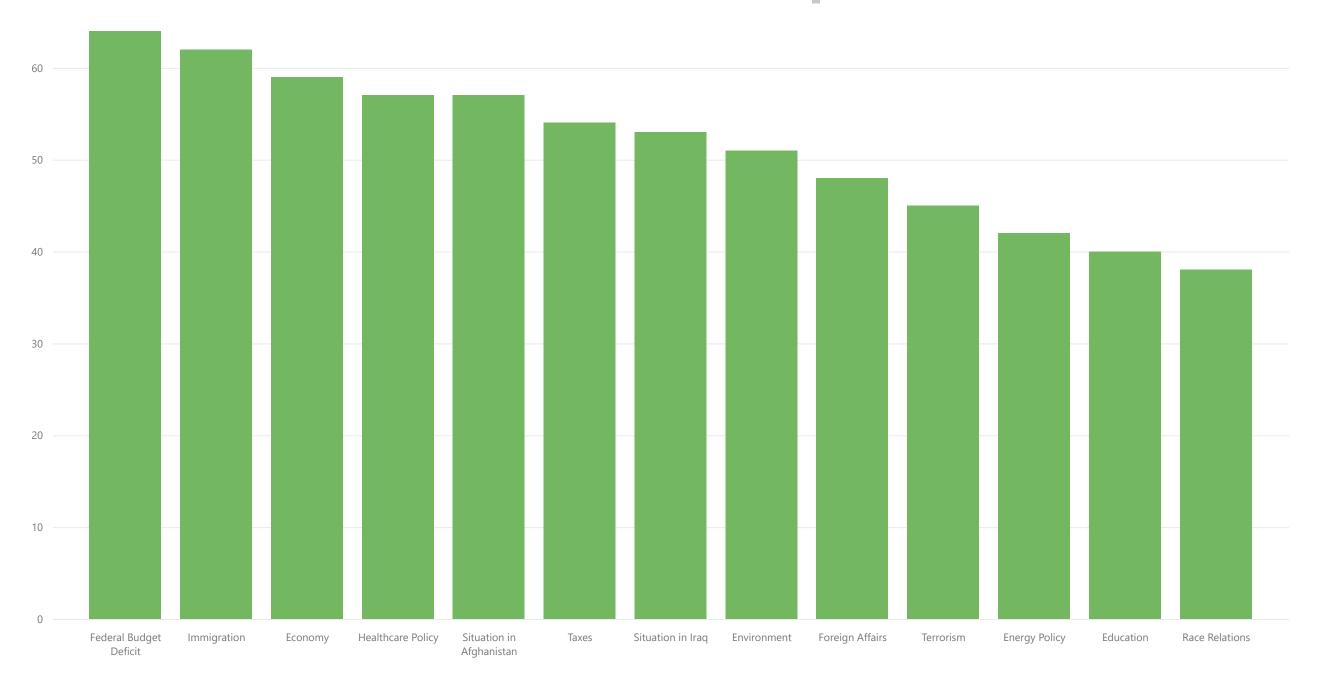
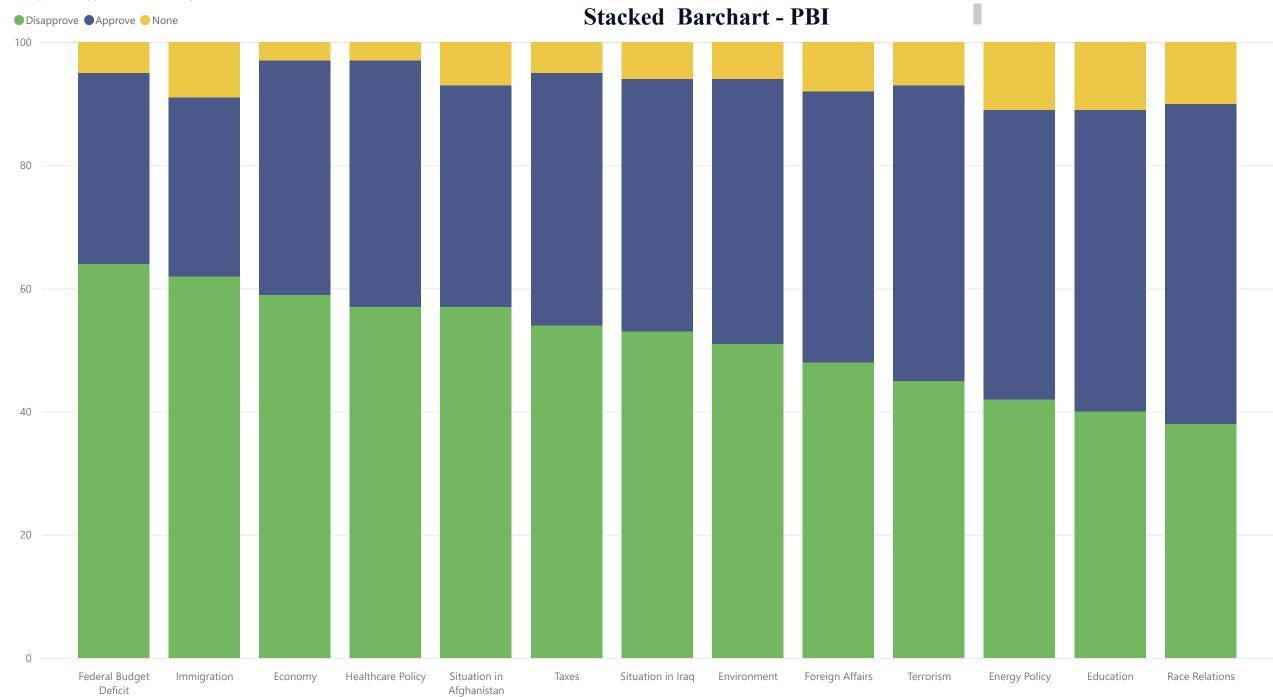
Week1&2_Exercises_SravanthiNallandula_PowerBI

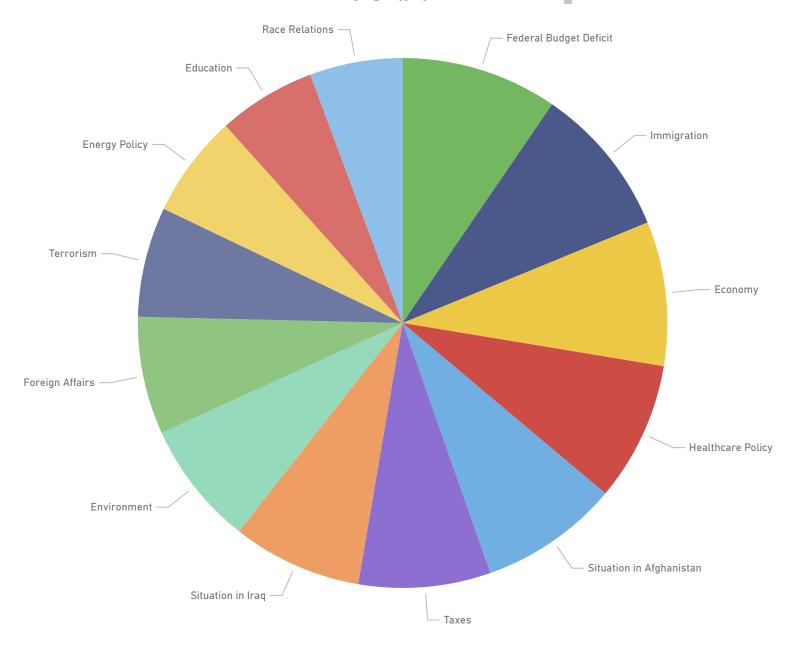
70

Barchart - PBI

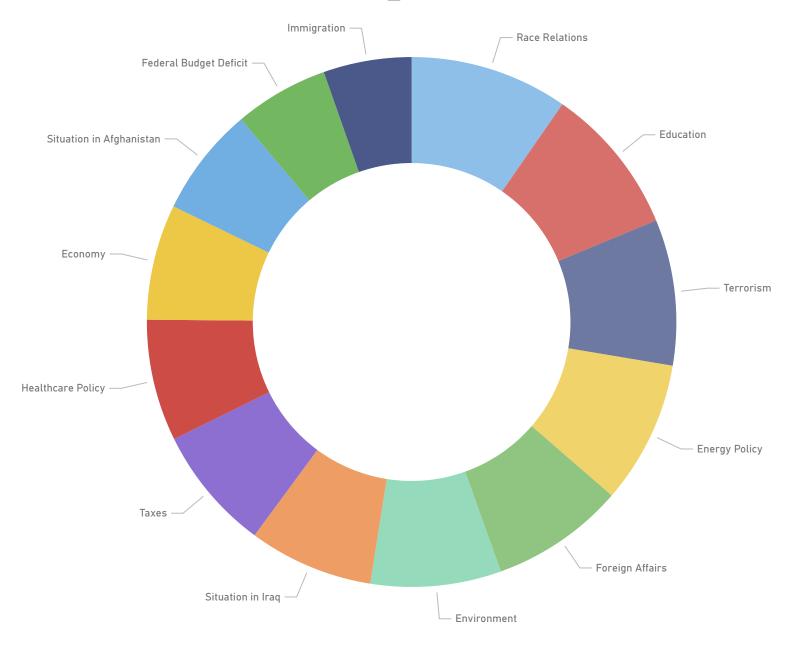




Pie Chart - PBI



Donut_Chart - PBI



Week1&2 Exercises in Python

```
In [1]: #Importing necessary Libraries
    import pandas as pd
    from pandas import ExcelWriter
    from pandas import ExcelFile
    import matplotlib.pyplot as plt

In [2]: #Loading data into dataframe
    Obama_Ratings = pd.read_excel('obama-approval-ratings.xls')

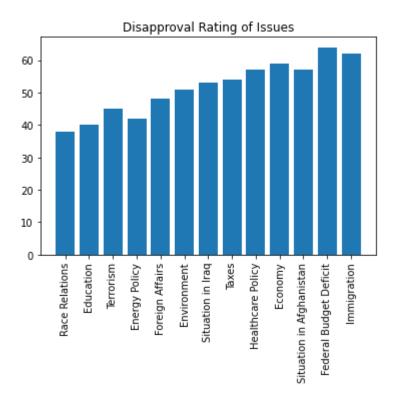
In [4]: Obama_Ratings

Out[4]: Issue Approve Disapprove None
```

ut[4]:		Issue	Approve	Disapprove	None
	0	Race Relations	52	38	10
	1	Education	49	40	11
	2	Terrorism	48	45	7
	3	Energy Policy	47	42	11
	4	Foreign Affairs	44	48	8
	5	Environment	43	51	6
	6	Situation in Iraq	41	53	6
	7	Taxes	41	54	5
	8	Healthcare Policy	40	57	3
	9	Economy	38	59	3
	10	Situation in Afghanistan	36	57	7
•	11	Federal Budget Deficit	31	64	5
	12	Immigration	29	62	9

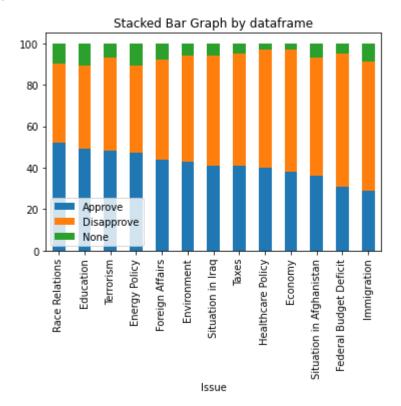
Barchart - Python

```
In [5]: #Plotting bar chart for Issue and Disapproval ratings
   plt.bar(Obama_Ratings.Issue, Obama_Ratings.Disapprove)
   plt.title('Disapproval Rating of Issues')
   plt.xticks(rotation=90)
   plt.show()
```

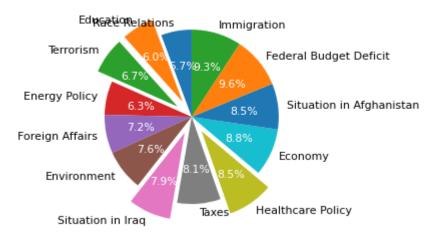


Stacked Bar Chart - Python

Out[6]: <AxesSubplot:title={'center':'Stacked Bar Graph by dataframe'}, xlabel='Issue'>

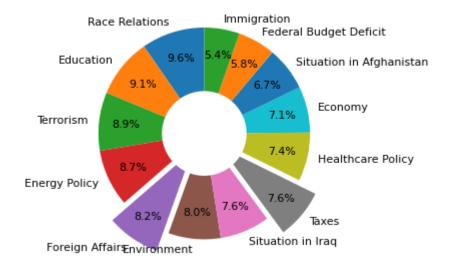


Pie Chart - Python



Donut Chart - Python

Donut chart is a plot for approval ratings and Issue



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:

	011101	30a. cc	necas_compilate
processx	3.5.2	3.7.0	TRUE
diffobj	0.3.4	0.3.5	TRUE
brio	1.1.2	1.1.3	TRUE
callr	3.7.0	3.7.2	FALSE
cli	2.5.0	3.4.0	TRUE
desc	1.3.0	1.4.2	FALSE
lifecycle	1.0.0	1.0.2	FALSE
pkgload	1.2.1	1.3.0	FALSE
ps	1.6.0	1.7.1	TRUE
rlang	0.4.11	1.0.5	TRUE
waldo	0.2.5	0.4.0	FALSE
withr	2.4.2	2.5.0	FALSE
rex	1.2.0	1.2.1	FALSE
rJava	1.0-4	1.0-6	TRUE
rprojroot	2.0.2	2.0.3	FALSE
testthat	3.0.2	3.1.4	TRUE
covr	3.5.1	3.6.1	TRUE

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 'cli' successfully unpacked and MD5 sums checked package 'ellipsis' successfully unpacked and MD5 sums checked package 'praise' 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"

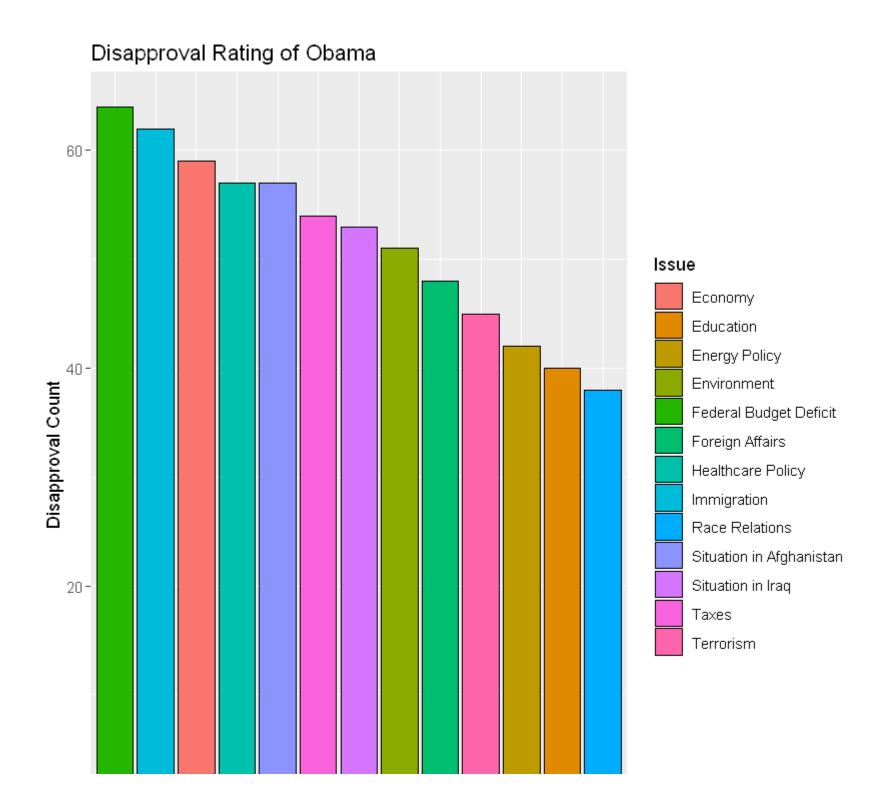
# Importing necessary packages
library('magrittr')
```

In [13]:	<pre># Importing necessary packages library('magrittr')</pre>
	<pre>Data = paste(getwd(), '/obama-approval-ratings.xls', sep = '') Obama_Ratings = xlsx::read.xlsx(Data, sheetIndex = 1, stringsAsFactors = FALSE)</pre>
	# 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

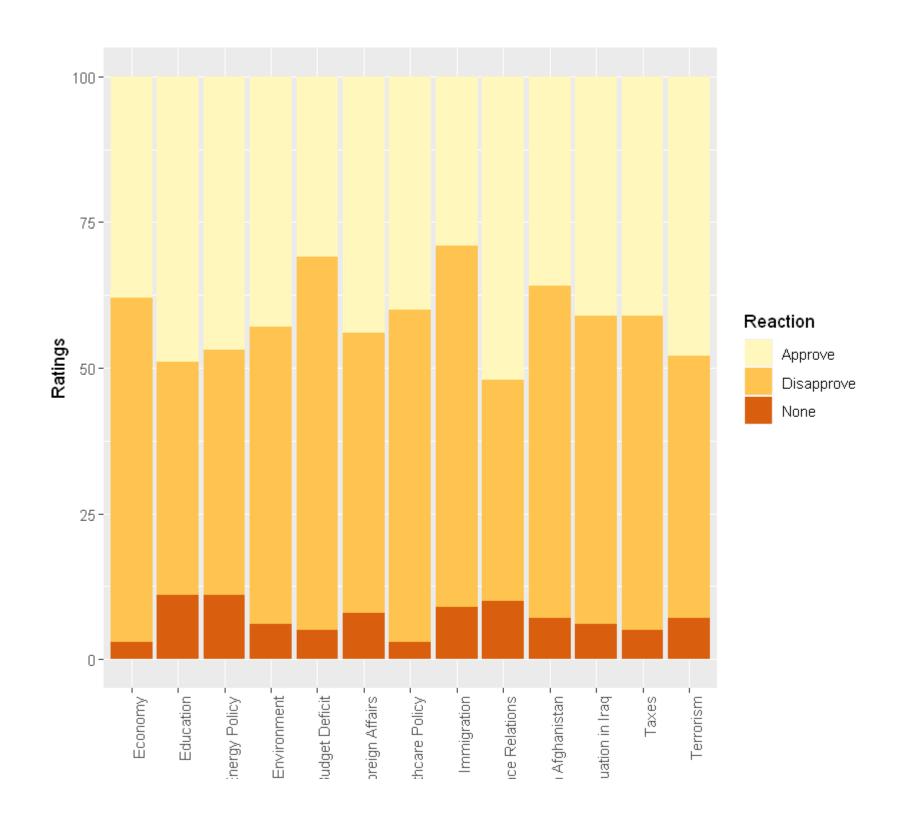
```
In [16]: library(ggplot2)
```

Barchart - R



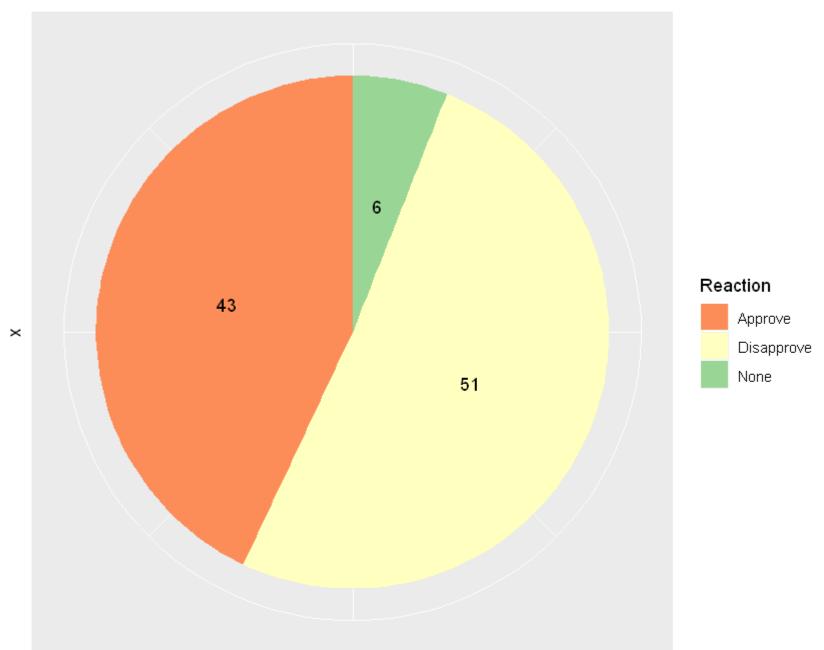


Stacked Bar Chart - R



Pie Chart - R

Reaction on Environment Issue in Obama Era



Ratings

Donut chart - R

