Assignment1.2 - Python

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

# Import data to be used for visualization
    obama = pd.read_excel('ex1-2/obama-approval-ratings.xls')

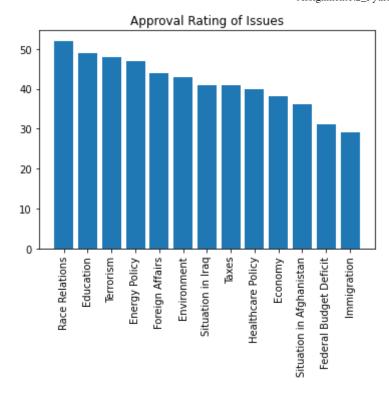
# Examine data
    print(obama)
```

	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

Plot Bar Chart

Plot the issue in x-axis and any of the corresponding ratings in the y-axis with approval ratings as the measure.

```
In [2]: plt.bar(obama.Issue, obama.Approve)
    plt.title('Approval Rating of Issues')
    plt.xticks(rotation=90)
    plt.show()
```



Plot Stacked Bar Chart

Plot each issue with their respective Approval, Disapproval and Neutral counts.

```
In [3]: obama.plot.bar(stacked=True)

Out[3]: <AxesSubplot:>

100

80

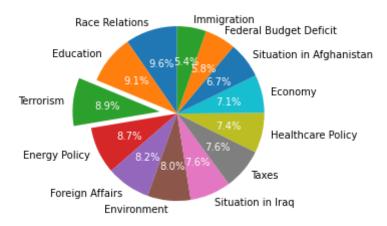
40

Approve
Disapprove
None
```

Plot Pie Chart

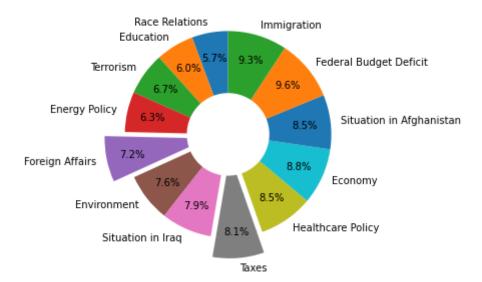
For pie chart demonstration, I would like to plot percentages for each issue of Obama dataset. I would also like to explode the third issue, i.e. Terrorism.

```
In [4]: # Create custom theme for graph
    csfont = {'fontname':'Century Gothic MS'}
    plt.rcParams['font.size'] = 10
```



Plot Donut Chart

Plot the disapproval percentages for each issue and explode the Foreign Affairs and Taxes issue.



In []: