Assignment_1_2_Vayuvegula_Soma_Shekar_Python

```
In [1]:
        #Import libraries
        import matplotlib.pyplot as plt
        import pandas as pd
```

In [2]: #Read CSV data df obama = pd.read excel("/Users/somashekarvayuvegula/Documents/Workspace/Data Presentation Visualization/Week df 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

29

62

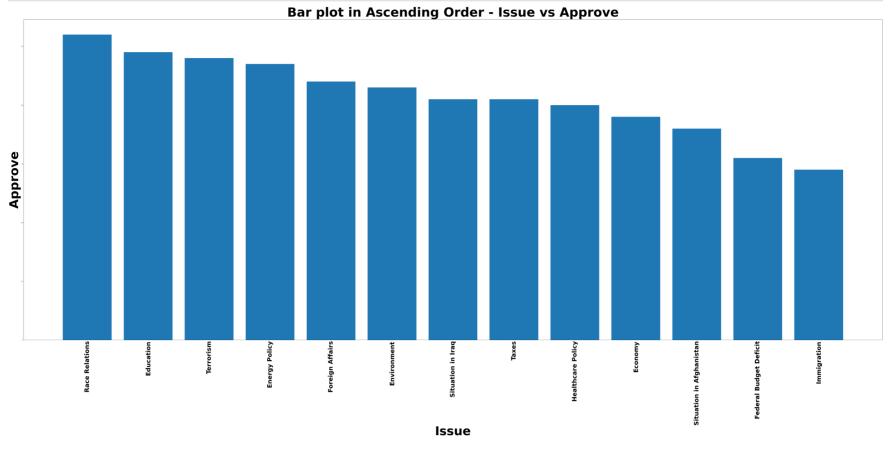
Immigration

Bar charts:

12

Out[2]:

```
In [3]: plt.figure(figsize=(120,46))
        # bar plot with matplotlib
        width = 0.8 # the width of the bars
        plt.bar('Issue', 'Approve', width, data=df_obama)
        plt.xticks(label="Issue",rotation=90, horizontalalignment="center", size=48, weight='bold')
        plt.xlabel("Issue", size=95, weight='bold')
        plt.ylabel("Approve", size=95, weight='bold')
        plt.title("Bar plot in Ascending Order - Issue vs Approve", size=98, weight='bold')
        plt.show()
```

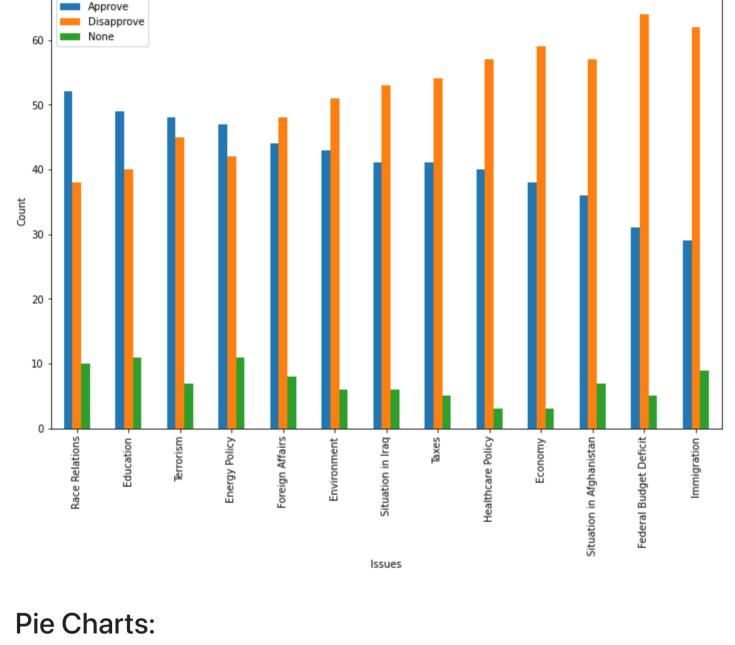


In [4]: df_obama.plot.bar(x="Issue",title="Stacked Bar Chart - Obama Approval Status",xlabel="Issues",ylabel="Count",fi

Stacked Bar Charts:

```
<AxesSubplot:title={'center':'Stacked Bar Chart - Obama Approval Status'}, xlabel='Issues', ylabel='Count'>
Out[4]:
```

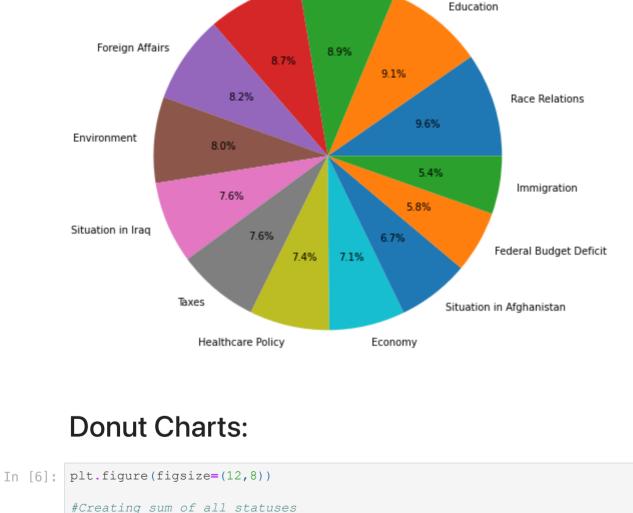




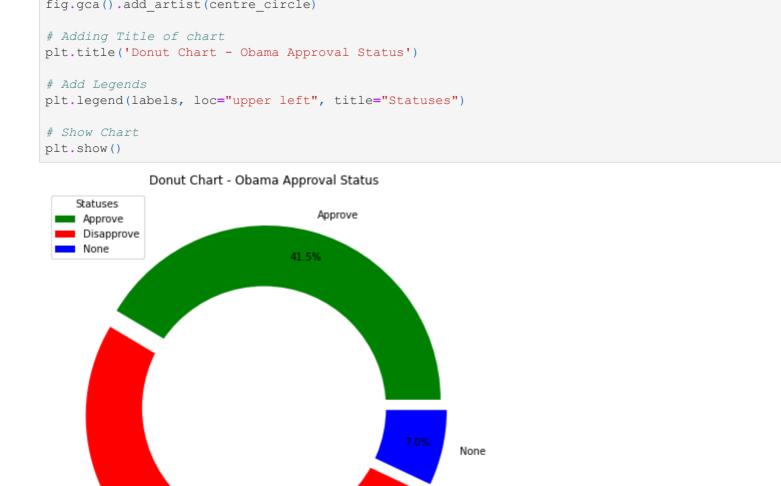
plt.pie(df_obama['Approve'],labels=df_obama['Issue'],autopct='%1.1f%%') plt.title('Pie Chart - Obama Approval Status') plt.show()

In [5]: plt.figure(figsize=(12,8))

```
Pie Chart - Obama Approval Status
                             Terrorism
Energy Policy
```



```
total=[sum(df_obama['Approve']), sum(df_obama['Disapprove']), sum(df_obama['None'])]
labels=['Approve','Disapprove','None']
#colors
colors=['green', 'red', 'blue']
#explosion
explode=(0.05, 0.05, 0.05)
# Pie Chart
plt.pie(total, colors=colors, labels=labels,
        autopct='%1.1f%%', pctdistance=0.85,
        explode=explode)
# draw circle
centre_circle = plt.Circle((0, 0), 0.70, fc='white')
fig = plt.gcf()
# Adding Circle in Pie chart
fig.gca().add_artist(centre_circle)
# Adding Title of chart
plt.title('Donut Chart - Obama Approval Status')
# Add Legends
plt.legend(labels, loc="upper left", title="Statuses")
# Show Chart
plt.show()
```



51.5%

Disapprove